Assessment on Concept 1



Unit 7

First: **Choose the correct answer:**

1. The fraction $\frac{4}{7}$ is close to .... $(1\frac{1}{2}$ or 1 or $\frac{1}{2}$ or $0)$
2. $\frac{5}{6} - \frac{1}{3} =$ .... $(\frac{1}{2}$ or $\frac{6}{9}$ or $\frac{4}{6}$ or $\frac{4}{2})$
3. $\frac{3}{4} + \frac{1}{6} =$ .... $(\frac{11}{12}$ or $\frac{3}{12}$ or $\frac{4}{12}$ or $\frac{4}{10})$
4. $\frac{23}{11} =$ .... $(2\frac{1}{3}$ or $3\frac{2}{11}$ or $2\frac{1}{11}$ or $2\frac{3}{12})$
5. $\frac{3}{5} = \frac{\dots}{25}$ $(30$ or 25 or 15 or $35)$

Second: **Complete the following:**

1. $\frac{8}{9} - \frac{1}{3}$ ....
2. The addition operation represented on the opposite models is:

   $\frac{\dots}{\dots} + \frac{\dots}{\dots} = \frac{\dots}{\dots}$

3. $\frac{1}{5} +$ .... $= \frac{1}{2}$
4. .... $- \frac{1}{4} = \frac{3}{8}$
5. $\frac{15}{30} = \frac{\dots}{2}$

Third: **Answer the following:**

- Hana has $\frac{7}{8}$ kilogram of flour. She used $\frac{1}{2}$ kilogram to make pancakes, and $\frac{1}{4}$ kilogram to make bread. How much flour does she have left?

....

....

Assessment 1 on




Unit 7

First: **Choose the correct answer:**

1. $\frac{35}{45} = \frac{\cdots}{\cdots}$ ($\frac{7}{5}$ or $\frac{5}{7}$ or $\frac{7}{9}$ or $\frac{5}{9}$)
2. $\frac{24}{48} = \frac{\cdots}{\cdots}$ (In the simplest form) ($\frac{1}{2}$ or $\frac{2}{4}$ or $\frac{3}{6}$ or $\frac{4}{8}$)
3. $\frac{3}{5} + \frac{3}{5} = \cdots\cdots$ ($\frac{3}{5}$ or $\frac{6}{5}$ or $\frac{3}{10}$ or $\frac{6}{10}$)
4. The smallest like denominator for the fractions $\frac{1}{3}$ and $\frac{3}{4}$ is ....

   (48 or 36 or 24 or 12)
5. $\frac{12}{48} = \frac{\cdots}{12}$ (48 or 1 or 3 or 4)

Second: **Complete the following:**

1. $\frac{5}{9} = \frac{45}{\cdots}$
2. $\frac{1}{3}$ of 21 is ....
3. $\frac{3}{8} + \frac{1}{6} = \cdots\cdots$
4. $\frac{5}{9} - \frac{1}{2} = \cdots\cdots$
5. $\frac{1}{2} + \cdots\cdots = \frac{3}{4}$

Third: **Answer the following:**

- Sameh bought $\frac{1}{3}$ kilogram of flour, and $\frac{1}{4}$ kilogram of sugar. What is the total mass of what Sameh bought?

....

....

Assessment 2 on Unit 7

First: Complete the following:

1. $\frac{36}{60}$ = ... (In the simplest form)

2. $\frac{....}{5} = \frac{12}{15}$

3. $\frac{6}{9} - \frac{5}{9}$ = ...

4. $\frac{2}{3} + \frac{2}{3}$ = ...

5. $3\frac{2}{7} = \frac{....}{7}$

Second: Choose the correct answer:

1. $\frac{3}{8} + \frac{3}{8}$ = ... ($\frac{3}{8}$ or $\frac{3}{16}$ or $\frac{3}{4}$ or $\frac{6}{16}$)

2. $\frac{1}{5}$ + ... $= \frac{1}{2}$ ($\frac{1}{3}$ or $\frac{2}{7}$ or $\frac{3}{10}$ or $\frac{1}{5}$)

3. $\frac{24}{36}$ = ... ($\frac{1}{2}$ or $\frac{8}{9}$ or $\frac{4}{3}$ or $\frac{2}{4}$)

4. The result of the subtraction process represented on the opposite model is ....

×	×			
×	×	×		

($\frac{1}{2}$ or $\frac{8}{9}$ or $\frac{3}{10}$ or $\frac{7}{10}$)

Third: Answer the following:

1. Find the result in the simplest form:

   a. $\frac{3}{4} + \frac{5}{6}$ = ...

   b. $\frac{1}{2} - \frac{1}{6}$ = ...

2. Write three fractions that are equivalent to the fraction $\frac{3}{5}$:

$\frac{3}{5} = \frac{....}{....} = \frac{....}{....} = \frac{....}{....}$

Assessment on Concept 1



First: Choose the correct answer:

1. $4\frac{5}{7}$ = ... ($\frac{45}{7}$ or $\frac{28}{7}$ or $2\frac{7}{7}$ or $3\frac{12}{7}$)
2. $\frac{25}{8}$ = ... ($1\frac{1}{8}$ or $3\frac{5}{8}$ or $2\frac{9}{8}$ or $2\frac{5}{8}$)
3. $8\frac{1}{2} = 8\frac{....}{16}$. (4 or 8 or 2 or 1)
4. $3\frac{1}{4}$ + ... $= 5\frac{1}{2}$ ($1\frac{1}{2}$ or $2\frac{1}{2}$ or $1\frac{1}{4}$ or $2\frac{1}{4}$)
5. $7\frac{1}{6}$ − .... $= 2\frac{1}{2}$ ($4\frac{4}{6}$ or $5\frac{4}{6}$ or $5\frac{2}{6}$ or $4\frac{2}{6}$)

Second: Complete the following:

1. $\frac{13}{5} = 1\frac{....}{5} = 2\frac{....}{5}$
2. $4\frac{3}{7} = \frac{....}{....}$
3. $5\frac{1}{8} + 3\frac{5}{8}$ = ... (In the simplest form)
4. $7\frac{3}{5} - \frac{4}{5}$ = ...
5. $\frac{15}{20}$ = ... , $\frac{12}{18}$ = ... (Using the smallest like denominator)

Third: Answer the following:

- Ahmed had 10 pounds, he bought a pen for $4\frac{3}{4}$ pounds , and an eraser for $2\frac{3}{4}$ pounds. How much money is left with Ahmed?

....

....

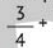
Assessment on Concept 2



Unit 8

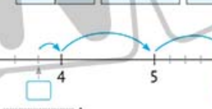
First: Complete the following:

1. The addition problem representing the opposite model is:



$\frac{3}{4}$ + ... = ...

2. The subtraction problem represented on the opposite number line is .... – .... = ...



3. $2\frac{3}{8} - 1\frac{3}{4} =$ .... – 2

4. $2\frac{8}{9} +$ .... $= 5\frac{1}{3}$

5. $3\frac{1}{6}$ hours = ... minutes.

Second: Find the result:

1. $2\frac{4}{5} + 3\frac{1}{2} =$ ....

2. $7\frac{3}{4} - 3\frac{1}{3} =$ ....

3. $4\frac{1}{2} - 2\frac{5}{6} =$ ....

Third: Answer the following:

- Ahmed runs for $3\frac{1}{4}$ hours a day, and Heba runs for 45 minutes less than Ahmed. What is the total time they both spent running?
  Find the time in hours, then in minutes.

....

....

....

....

Assessment 1 on Unit 8

First: Choose the correct answer:

1. $8\frac{3}{4} - 2\frac{1}{4} =$ .... $(7\frac{1}{4}$ or 7 or $6\frac{3}{4}$ or $6\frac{1}{2})$
2. $3\frac{1}{2} = 3\frac{....}{8}$. $(4$ or 7 or 28 or $2)$
3. $5\frac{13}{7} =$ .... $(3\frac{20}{7}$ or $4\frac{18}{7}$ or $6\frac{6}{7}$ or $6\frac{3}{7})$
4. $5\frac{3}{5} - 1\frac{3}{4} =$ .... $- 2$ $(4\frac{7}{20}$ or $4\frac{3}{5}$ or $5\frac{2}{5}$ or $5\frac{17}{20})$
5. 130 minutes = ... hours. $(2\frac{1}{6}$ or $2\frac{1}{2}$ or $2\frac{1}{4}$ or $2\frac{1}{3})$

Second: Complete the following:

1. 2 minutes and half = ... seconds.
2. 1 month = ... year.
3. $\frac{13}{5} = 1\frac{....}{....} = 2\frac{....}{....}$
4. $5\frac{3}{4} +$ .... $= 7\frac{1}{6}$
5. $3\frac{1}{2} + 1\frac{1}{3} =$ .... $\frac{....}{....} +$ .... $\frac{....}{....} = \frac{....}{....} + \frac{....}{....} = \frac{....}{....} =$ .... $\frac{....}{....}$

Third: Answer the following:

- Hala spends 5 hours in the club; $2\frac{1}{2}$ hours in swimming practice, $1\frac{1}{3}$ hours in running practice, and she takes a break between both practices. How long does Hala spend resting in hours and minutes?

....

....

....

Assessment 2 on Unit 8



First: **Complete the following:**

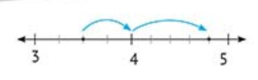
1. $\frac{15}{4} = 2 \frac{\dots}{\dots}$

2. $2\frac{3}{8} - \dots\dots = \frac{7}{8}$

3. $2\frac{1}{3}$ and $8\frac{3}{4}$ using the smallest like denominator are .... , ...

4. $2\frac{3}{4} + 1\frac{1}{2} = \dots\dots - 5\frac{3}{4}$

5. The subtraction problem represented on the opposite number line is .... − .... = ...



Second: **Choose the correct answer:**

1. A year and 3 months = ... years. $(1\frac{1}{12}$ or $1\frac{1}{2}$ or $1\frac{1}{3}$ or $1\frac{1}{4})$

2. $3\frac{4}{6}$ and $2\frac{2}{4}$ using the smallest like denominator are .... , ...
   $(3\frac{4}{6}, 2\frac{2}{6}$ or $3\frac{4}{6}, 2\frac{3}{6}$ or $3\frac{3}{4}, 2\frac{2}{4}$ or $3\frac{2}{3}, 2\frac{1}{2})$

3. $3 - 1\frac{1}{2} = 2\frac{3}{4} - \dots\dots$ $(\frac{3}{4}$ or $\frac{1}{4}$ or $1\frac{1}{2}$ or $1\frac{1}{4})$

4. $5\frac{7}{9} = 4\frac{\dots}{9}$ (52 or 25 or 16 or 7)

Third: **Answer the following:**

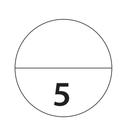
- Ahmed has three children. The middle child is $4\frac{1}{2}$ years old, the eldest is $1\frac{1}{3}$ years older than the middle child and the youngest is $1\frac{1}{4}$ years younger than the middle child. What is the sum of the ages of the three children? ....
....
....

Exams 2024

Model (1)

15 Marks

1 Choose the correct answer:



a. The simplest form of $\frac{12}{60}$ is .... ($\frac{2}{5}$, $\frac{1}{5}$, $\frac{1}{4}$, $\frac{1}{6}$)

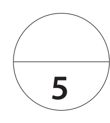
b. The least common denominator for the fractions $\frac{2}{5}$ and $\frac{1}{3}$ is .... (10 , 15 , 18 , 20)

c. 150 seconds = ... minutes ($2\frac{1}{5}$, $2\frac{1}{2}$, $2\frac{2}{3}$, 3)

d. $\frac{7}{8} - \frac{1}{4} =$ .... ($\frac{3}{4}$, $\frac{5}{8}$, $\frac{2}{4}$, $\frac{1}{3}$)

e. $\frac{1}{6} + \frac{1}{3}$ .... $\frac{1}{3} + \frac{3}{4}$ (< , > , = , otherwise)

2 Complete the following:



a. If $\frac{4}{7} + \frac{1}{3} = \frac{x}{21} + \frac{7}{21}$, then $x =$ ....

b. $3\frac{3}{7} = \frac{\dots}{\dots}$ (as improper fraction)

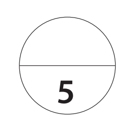
c. $3\frac{1}{2}$ hours = ... minutes

d. $6\frac{1}{2}$ years = ... years + ... months

e. If $7\frac{5}{8}$ is equivalent to $\frac{x}{8}$, then $x =$ ....

3 Answer the following:





a. **Find the result of each of the following:**

1. $1\frac{2}{5} + \frac{11}{5}$



....

2. $4\frac{3}{5} - 2\frac{1}{3}$

....

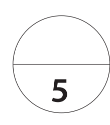
b. **Find the value of K:** $\frac{1}{3} + K = \frac{5}{6}$

....

15 Marks

Model (2)

1 Choose the correct answer:



5

a $\frac{19}{3}$ is equivalent to .... ($3\frac{1}{6}$, $6\frac{1}{3}$, $3\frac{2}{5}$, $5\frac{2}{3}$)

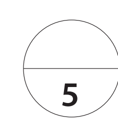
b $1\frac{1}{8}$ days = ... hours (30 , 28 , 27 , 26)

c There are 45 students in a class if $\frac{2}{5}$ of them are boys, then the number of girls in this class is .... (9 , 27 , 36 , 18)

d $\frac{1}{7} + \frac{4}{7} + \text{..........} = 1$ ($\frac{4}{7}$, $\frac{2}{7}$, $\frac{3}{7}$, $\frac{1}{7}$)

e $\frac{2}{5} = \frac{\text{.......}}{35}$ (28 , 14 , 21 , 10)

2 Complete the following:



5

a $\frac{11}{16} - B = \frac{1}{4}$, then $B = \frac{\text{......}}{\text{......}}$

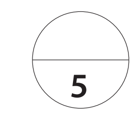
b $R - \frac{2}{6} = \frac{1}{3}$, then the value of $R = \frac{\text{......}}{\text{......}}$ (in the simplest form)

c $1 - \frac{1}{8} - \frac{2}{8} = \frac{\text{......}}{\text{......}}$

d The simplest form of $\frac{16}{48}$ is $\frac{\text{......}}{\text{......}}$

e $7\frac{1}{10}$ minutes = ... minutes, ... seconds

3 Answer the following:



5

a Sara has $\frac{3}{4}$ kg of flour she used $\frac{2}{5}$ kg of it. How much flour was left?

....

....

b **Use the number line to find the difference:**

$2\frac{2}{3} - 1\frac{1}{2}$

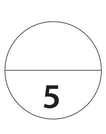
....

....

15 Marks

Model (3)

1 Choose the correct answer:



a The fraction $\frac{2}{3}$ is equivalent to .... ($\frac{4}{9}$, $\frac{6}{9}$, $\frac{12}{16}$, $\frac{8}{16}$)

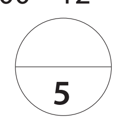
b The number of quarters in 3 is .... (7 , 10 , 12 , 16)

c $3\frac{1}{4} + \frac{1}{2} =$ .... ($3\frac{3}{4}$, $3\frac{1}{3}$, $3\frac{2}{4}$, 4)

d 1 − .... = 1 ($\frac{1}{2}$, $\frac{0}{2}$, $\frac{2}{2}$, $\frac{3}{2}$)

e Which of the following is not equivalent to $\frac{15}{20}$? ($\frac{3}{4}$, $\frac{30}{40}$, $\frac{25}{100}$, $\frac{9}{12}$)

2 Complete the following:



a $\frac{3}{4}$ year = ... months

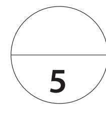
b If $A + 5\frac{1}{2} = 8\frac{1}{4}$, then A = ...

c $4\frac{7}{10} - 3\frac{1}{2} =$ .... (in the simplest form)

d $9\frac{2}{7} = \frac{\dots\dots}{7}$

e $2\frac{1}{4}$ hours = ... hours and .... minutes

3 Answer the following:

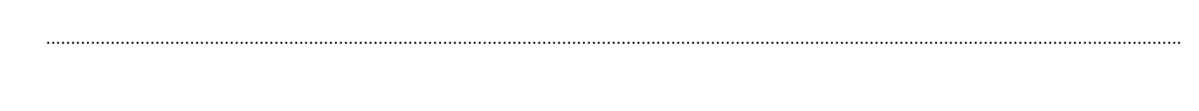


a Hatem studied math for $3\frac{1}{2}$ hours and studied English for 100 minutes, how many hours did Hatem study in all?

....

....

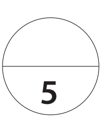
b **Find the result of:** $6 - \frac{3}{7}$



Model (4)

15 Marks

1 Choose the correct answer:



a) If $A - \frac{5}{7} = \frac{1}{4}$, then A = ... ($\frac{13}{28}$, $\frac{27}{28}$, $\frac{1}{4}$, $\frac{5}{7}$)

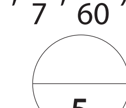
b) $\frac{7}{9} - \frac{2}{3} =$ .... ($\frac{1}{3}$, $\frac{2}{9}$, $\frac{1}{9}$, $\frac{5}{6}$)

c) $7\frac{3}{4} + 1\frac{1}{2} =$ .... (in the simplest form) ($8\frac{8}{10}$, 9 , $9\frac{1}{8}$, $9\frac{1}{4}$)

d) The LCM of the denominators of $\frac{4}{7}$ and $\frac{2}{5}$ is .... (7 , 35 , 5 , 25)

e) The fraction $\frac{2}{5}$ is equivalent to .... ($\frac{12}{30}$, $\frac{6}{12}$, $\frac{6}{7}$, $\frac{20}{60}$)

2 Complete the following:



a) The simplest form of $\frac{12}{48}$ is $\frac{\cdots}{\cdots}$

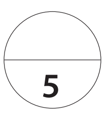
b) If $\frac{3}{4} = \frac{x}{36}$, then $x =$ ....

c) If $\frac{43}{6}$ is equivalent to the mixed number $m\frac{1}{6}$, then m = ...

d) $1 - \frac{\cdots}{\cdots} = \frac{5}{8}$

e) $\frac{1}{3} + \frac{1}{2} = \frac{\cdots}{\cdots}$

3 Answer the following:



a) Nada bought $4\frac{5}{12}$ kg of oranges and $3\frac{1}{4}$ kg of apples, what is the total mass of what Nada bought?

....

....

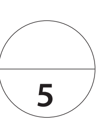
b) **Complete:**

1. $2\frac{5}{12}$ years = ... years + ... months

2. $5\frac{3}{7}$ weeks = ... weeks + ... days

15 Marks Model (5)

1 Choose the correct answer:



a $\frac{3}{4}$ hour = ... minutes (30 , 40 , 45 , 15)

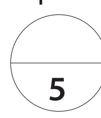
b $7\frac{3}{4} - 5\frac{3}{5}$ = ... ($2\frac{1}{5}$, $2\frac{1}{4}$, $2\frac{3}{20}$, $2\frac{1}{2}$)

c $5\frac{5}{7}$ = ... ($\frac{40}{5}$, $\frac{40}{7}$, $\frac{33}{7}$, $\frac{22}{7}$)

d $\frac{1}{4} - \frac{1}{12} = 1 -$ .... ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{5}{6}$, $\frac{1}{5}$)

e 30 months = ... years ($1\frac{3}{4}$, $2\frac{1}{2}$, $2\frac{3}{4}$, 3)

2 Complete the following:



a $5\frac{3}{4} = \frac{......}{......}$ (as improper fraction)

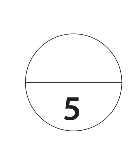
b $3\frac{3}{7} + 7\frac{5}{12} = (3 + 7) + (\frac{3}{7} + \frac{......}{......})$

c $8 - 7\frac{3}{10} = \frac{......}{......}$

d The LCM denominator of $\frac{1}{3}$ and $\frac{1}{6}$ is ....

e If $1\frac{1}{2} - n = \frac{3}{4}$, then $n = \frac{......}{......}$

3 Answer the following:



a Write 3 equivalent fractions of $\frac{3}{4}$.

....

....

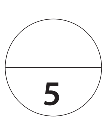
b Ali walked $4\frac{2}{5}$ km and his friend Mostafa walked $\frac{2}{3}$ km more, what is the distance that Mostafa walked?

....

....

15 Marks — Model (1)

1 Choose the correct answer:



a The simplest form of $\frac{12}{60}$ is .... $\left(\frac{2}{5} , \frac{1}{5} , \frac{1}{4} , \frac{1}{6} \right)$

b The least common denominator for the fractions $\frac{2}{5}$ and $\frac{1}{3}$ is .... (10 , 15 , 18 , 20)

c 150 seconds = ... minutes $\left(2\frac{1}{5} , 2\frac{1}{2} , 2\frac{2}{3} , 3 \right)$

d $\frac{7}{8} - \frac{1}{4} =$ .... $\left(\frac{3}{4} , \frac{5}{8} , \frac{2}{4} , \frac{1}{3} \right)$

e $\frac{1}{6} + \frac{1}{3}$ .... $\frac{1}{3} + \frac{3}{4}$ $(<\ ,\ >\ ,\ =\ ,\ \text{otherwise})$

2 Complete the following:

5

a If $\frac{4}{7} + \frac{1}{3} = \frac{x}{21} + \frac{7}{21}$, then $x = 12$

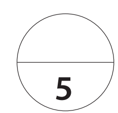
b $3\frac{3}{7} = \frac{24}{7}$ (as improper fraction)

c $3\frac{1}{2}$ hours = 210 minutes

d $6\frac{1}{2}$ years = 6 years + 6 months

e If $7\frac{5}{8}$ is equivalent to $\frac{x}{8}$, then $x = 61$

3 Answer the following:



a Find the result of each of the following:

1 $1\frac{2}{5} + \frac{11}{5}$

$\frac{7}{5} + \frac{11}{5} = \frac{18}{5} = 3\frac{3}{5}$

2 $4\frac{3}{5} - 2\frac{1}{3}$

$4\frac{9}{14} - 2\frac{5}{15} = 2\frac{4}{15}$

b Find the value of K:

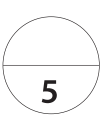
$\frac{1}{3} + K = \frac{5}{6}$

$K = \frac{5}{6} - \frac{1}{3} = \frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$

15 Marks

Model (2)

1 Choose the correct answer:



a $\frac{19}{3}$ is equivalent to .... ($3\frac{1}{6}$, $6\frac{1}{3}$, $3\frac{2}{5}$, $5\frac{2}{3}$)

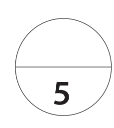
b $1\frac{1}{8}$ days = ... hours (30 , 28 , 27 , 26)

c There are 45 students in a class if $\frac{2}{5}$ of them are boys, then the number of girls in this class is .... (9 , 27 , 36 , 18)

d $\frac{1}{7} + \frac{4}{7} +$ .... $= 1$ ($\frac{4}{7}$, $\frac{2}{7}$, $\frac{3}{7}$, $\frac{1}{7}$)

e $\frac{2}{5} = \frac{......}{35}$ (28 , 14 , 21 , 10)

2 Complete the following:



a $\frac{11}{16} - B = \frac{1}{4}$, then B = $\frac{7}{16}$

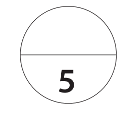
b $R - \frac{2}{6} = \frac{1}{3}$, then the value of R = $\frac{2}{3}$ (in the simplest form)

c $1 - \frac{1}{8} - \frac{2}{8} = \frac{5}{8}$

d The simplest form of $\frac{16}{48}$ is $\frac{1}{3}$

e $7\frac{1}{10}$ minutes = 7 minutes, 6 seconds

3 Answer the following:



a Sara has $\frac{3}{4}$ kg of flour she used $\frac{2}{5}$ kg of it. How much flour was left?

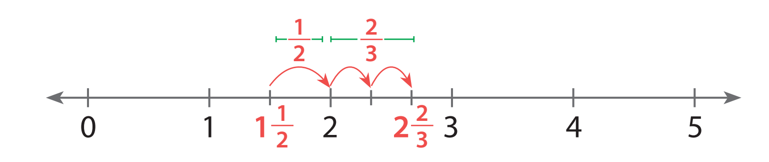
The amount of flour $= \frac{3}{4} - \frac{2}{5}$

$= \frac{15}{20} - \frac{8}{20} = \frac{7}{20}$ kg

b **Use the number line to find the difference:**

$2\frac{2}{3} - 1\frac{1}{2}$

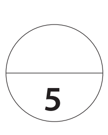
The difference $= \frac{1}{2} + \frac{2}{3} = \frac{3}{6} + \frac{4}{6} = \frac{7}{6} = 1\frac{1}{6}$



15 Marks

Model (3)

1 Choose the correct answer:



a The fraction $\frac{2}{3}$ is equivalent to .... ($\frac{4}{9}$, $\frac{6}{9}$, $\frac{12}{16}$, $\frac{8}{16}$)

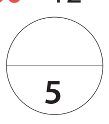
b The number of quarters in 3 is .... (7 , 10 , 12 , 16)

c $3\frac{1}{4} + \frac{1}{2} =$ .... ($3\frac{3}{4}$, $3\frac{1}{3}$, $3\frac{2}{4}$, 4)

d $1 -$ .... $= 1$ ($\frac{1}{2}$, $\frac{0}{2}$, $\frac{2}{2}$, $\frac{3}{2}$)

e Which of the following is not equivalent to $\frac{15}{20}$? ($\frac{3}{4}$, $\frac{30}{40}$, $\frac{25}{100}$, $\frac{9}{12}$)

2 Complete the following:



a $\frac{3}{4}$ year = 9 months

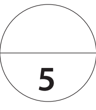
b If $A + 5\frac{1}{2} = 8\frac{1}{4}$, then $A = 2\frac{3}{4}$

c $4\frac{7}{10} - 3\frac{1}{2} = 1\frac{1}{5}$ (in the simplest form)

d $9\frac{2}{7} = \frac{65}{7}$

e $2\frac{1}{4}$ hours = 2 hours and 15 minutes

3 Answer the following:



a Hatem studied math for $3\frac{1}{2}$ hours and studied English for 100 minutes, how many hours did Hatem study in all?

100 minutes = $1\frac{2}{3}$ hours

The total hours = $3\frac{1}{2} + 1\frac{2}{3} = 3\frac{3}{6} + 1\frac{4}{6} = 5\frac{1}{6}$ hours

b **Find the result of:**

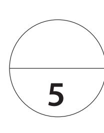
$6 - \frac{3}{7}$

$5\frac{7}{7} - \frac{3}{7} = 5\frac{4}{7}$

15 Marks

Model (4)

1 Choose the correct answer:



a If $A - \frac{5}{7} = \frac{1}{4}$, then A = ... ($\frac{13}{28}$, $\frac{27}{28}$, $\frac{1}{4}$, $\frac{5}{7}$)

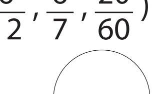
b $\frac{7}{9} - \frac{2}{3} =$ .... ($\frac{1}{3}$, $\frac{2}{9}$, $\frac{1}{9}$, $\frac{5}{6}$)

c $7\frac{3}{4} + 1\frac{1}{2} =$ .... (in the simplest form) ($8\frac{8}{10}$, 9 , $9\frac{1}{8}$, $9\frac{1}{4}$)

d The LCM of the denominators of $\frac{4}{7}$ and $\frac{2}{5}$ is .... (7 , 35 , 5 , 25)

e The fraction $\frac{2}{5}$ is equivalent to .... ($\frac{12}{30}$, $\frac{6}{12}$, $\frac{6}{7}$, $\frac{20}{60}$)

2 Complete the following:



a The simplest form of $\frac{12}{48}$ is $\frac{1}{4}$

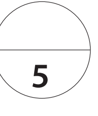
b If $\frac{3}{4} = \frac{x}{36}$, then $x = 27$

c If $\frac{43}{6}$ is equivalent to the mixed number $m\frac{1}{6}$, then m = 7

d $1 - \frac{3}{8} = \frac{5}{8}$

e $\frac{1}{3} + \frac{1}{2} = \frac{5}{6}$

3 Answer the following:



a Nada bought $4\frac{5}{12}$ kg of oranges and $3\frac{1}{4}$ kg of apples, what is the total mass of what Nada bought?

The total mass $= 4\frac{5}{12} + 3\frac{1}{4}$

$= 4\frac{5}{12} + 3\frac{3}{12} = 7\frac{8}{12} = 7\frac{2}{3}$ kg

b **Complete:**

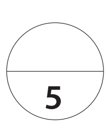
1 $2\frac{5}{12}$ years = 2 years + 5 months

2 $5\frac{3}{7}$ weeks = 5 weeks + 3 days

15 Marks

Model (5)

1 Choose the correct answer:



a $\frac{3}{4}$ hour = ... minutes (30, 40, **45**, 15)

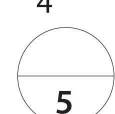
b $7\frac{3}{4} - 5\frac{3}{5}$ = ... ($2\frac{1}{5}$, $2\frac{1}{4}$, **$2\frac{3}{20}$**, $2\frac{1}{2}$)

c $5\frac{5}{7}$ = ... ($\frac{40}{5}$, **$\frac{40}{7}$**, $\frac{33}{7}$, $\frac{22}{7}$)

d $\frac{1}{4} - \frac{1}{12} = 1 -$ .... ($\frac{1}{2}$, $\frac{1}{4}$, **$\frac{5}{6}$**, $\frac{1}{5}$)

e 30 months = ... years ($1\frac{3}{4}$, **$2\frac{1}{2}$**, $2\frac{3}{4}$, 3)

2 Complete the following:



a $5\frac{3}{4} = \frac{23}{4}$ (as improper fraction)

b $3\frac{3}{7} + 7\frac{5}{12} = (3 + 7) + (\frac{3}{7} + \frac{5}{12})$

c $8 - 7\frac{3}{10} = \frac{7}{10}$

d The LCM denominator of $\frac{1}{3}$ and $\frac{1}{6}$ is **6**

e If $1\frac{1}{2} - n = \frac{3}{4}$, then $n = \frac{3}{4}$

3 Answer the following:

5

a Write 3 equivalent fractions of $\frac{3}{4}$.

$\frac{3}{4} = \frac{6}{8} = \frac{12}{16} = \frac{15}{20}$

b Ali walked $4\frac{2}{5}$ km and his friend Mostafa walked $\frac{2}{3}$ km more, what is the distance that Mostafa walked?

The distance that Mostafa walked $= 4\frac{2}{5} + \frac{2}{3}$

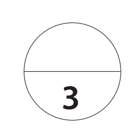
$= 4\frac{6}{15} + \frac{10}{15} = 5\frac{1}{15}$ km

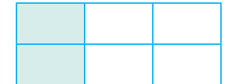


Model (1)

5 Marks

1 **Choose the correct answer:**



a The fraction which represents the colored part in the  opposite model = ...

- $\frac{2}{4}$
- $\frac{4}{6}$
- $\frac{1}{6}$
- $\frac{2}{6}$

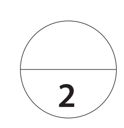
b The simplest form of $2\frac{4}{16}$ is ....

- $1\frac{1}{4}$
- $2\frac{2}{4}$
- $\frac{1}{4}$
- $2\frac{1}{4}$

c $7\frac{3}{4} + 1\frac{1}{2} =$ .... (in its simplest form)

- $8\frac{8}{10}$
- 9
- $9\frac{1}{8}$
- $9\frac{1}{4}$

2 **Find the result of each of the following:**

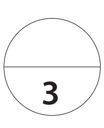


a $1\frac{9}{5} + 2\frac{11}{5} =$ ....

b $4\frac{3}{5} - 2\frac{1}{3} =$ ....

5 Marks

Model (2)

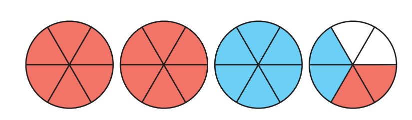


1 Choose the correct answer:

a $2\frac{1}{4} =$ ....

- $2\frac{4}{8}$
- $2\frac{4}{16}$
- $1\frac{1}{2}$
- $1\frac{2}{8}$

b The following model represents ....

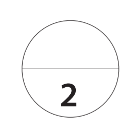


- $3\frac{2}{6} + \frac{2}{6} = 3\frac{2}{6}$
- $2\frac{1}{3} + 1\frac{1}{6} = 3\frac{2}{6}$
- $2\frac{1}{6} + 1\frac{2}{6} = 3\frac{1}{2}$
- $2\frac{2}{6} + 1\frac{2}{6} = 3\frac{2}{3}$

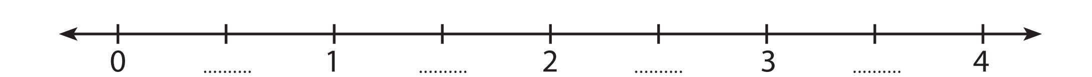
c If $\frac{4}{20} = \frac{1}{x}$ then $x =$ ....

- 2
- 3
- 4
- 5

2 Answer the following:



a Fill in the missing fractions on the number line:



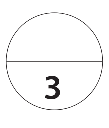
b Find the result by renaming the fractions using LCM:

- $\frac{5}{8} - \frac{1}{2} =$ ....



Model (3)

1 Choose the correct answer:



a) $6 - \ldots\ldots = 5\frac{1}{4}$

- $\frac{1}{4}$
- $\frac{2}{4}$
- $\frac{3}{4}$
- $1\frac{1}{4}$

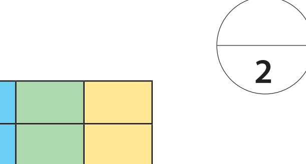
b) The common denominator for the two fractions $2\frac{4}{5}$ and $1\frac{3}{4}$ may be ……

- 15
- 16
- 20
- 9

c) The estimation of $2\frac{6}{7} + 4\frac{7}{8}$ using the benchmark fractions is ……

- 5
- 6
- 7
- 8

2 Answer the following:



a) What is the fraction which represents the blue color?

……………………………………………………………………

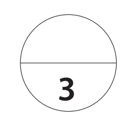
b) What is the fraction which represents the blue and the green colors?

……………………………………………………………………

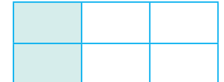


Model (1)

1 Choose the correct answer:



a The fraction which represents the colored part in the opposite model = ...



- $\frac{2}{4}$
- $\frac{4}{6}$
- $\frac{1}{6}$
- $\frac{2}{6}$

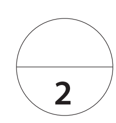
b The simplest form of $2\frac{4}{16}$ is ....

- $1\frac{1}{4}$
- $2\frac{2}{4}$
- $\frac{1}{4}$
- $2\frac{1}{4}$

c $7\frac{3}{4} + 1\frac{1}{2} =$ .... (in its simplest form)

- $8\frac{8}{10}$
- 9
- $9\frac{1}{8}$
- $9\frac{1}{4}$

2 Find the result of each of the following:



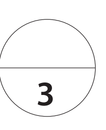
a $1\frac{9}{5} + 2\frac{11}{5} = 3\frac{20}{5} = 3 + 4 = 7$

b $4\frac{3}{5} - 2\frac{1}{3} = 4\frac{9}{15} - 2\frac{5}{15} = 2\frac{4}{15}$

5 Marks

Model (2)

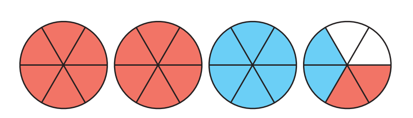
1 Choose the correct answer:



a $2\frac{1}{4} =$ ....

- $2\frac{4}{8}$
- $2\frac{4}{16}$
- $1\frac{1}{2}$
- $1\frac{2}{8}$

b The following model represents ....

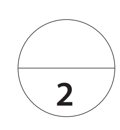


- $3\frac{2}{6} + \frac{2}{6} = 3\frac{2}{6}$
- $2\frac{1}{3} + 1\frac{1}{6} = 3\frac{2}{6}$
- $2\frac{1}{6} + 1\frac{2}{6} = 3\frac{1}{2}$
- $2\frac{2}{6} + 1\frac{2}{6} = 3\frac{2}{3}$

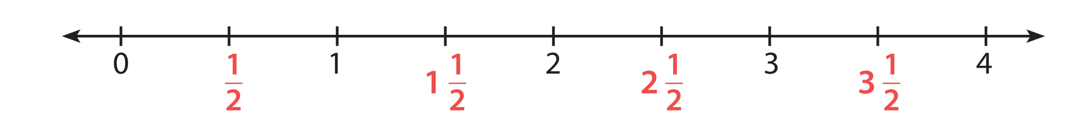
c If $\frac{4}{20} = \frac{1}{x}$ then $x =$ ....

- 2
- 3
- 4
- 5

2 Answer the following:



a Fill in the missing fractions on the number line:



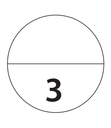
b Find the result by renaming the fractions using LCM:

- $\frac{5}{8} - \frac{1}{2} = \frac{5}{8} - \frac{4}{8} = \frac{1}{8}$

5 Marks

Model (3)

1 Choose the correct answer:



a $6 - \ldots\ldots = 5\frac{1}{4}$

- $\frac{1}{4}$
- $\frac{2}{4}$
- $\frac{3}{4}$
- $1\frac{1}{4}$

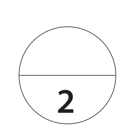
b The common denominator for the two fractions $2\frac{4}{5}$ and $1\frac{3}{4}$ may be ....

- 15
- 16
- 20
- 9

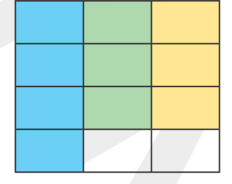
c The estimation of $2\frac{6}{7} + 4\frac{7}{8}$ using the benchmark fractions is ....

- 5
- 6
- 7
- 8

2 Answer the following:



a What is the fraction which represents the blue color?



$\frac{4}{12} = \frac{1}{3}$

b What is the fraction which represents the blue and the green colors?

$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$

March Tests | Till lesson **6** unit **9**

Test 1



1. Choose the correct answer. (5 marks)

1. The mixed number $4\frac{1}{3}$ can be regrouped as ______
   A. $\frac{13}{4}$ B. $3\frac{1}{4}$ C. $3\frac{4}{3}$ D. $4+\frac{1}{3}$
2. If $\frac{5}{8}=\frac{x}{40}$, then $x=$ ______
   A. 37 B. 25 C. 40 D. 5×8
3. $4\times5+\frac{4}{5}\times5=$ ______ $\times5$
   A. $\frac{24}{5}$ B. 4 C. $\frac{4}{5}$ D. $5\frac{4}{5}$
4. $2\frac{1}{4}-1\frac{1}{2}=$ ______
   A. $1\frac{1}{4}$ B. $\frac{3}{4}$ C. $3\frac{3}{4}$ D. $1\frac{1}{2}$
5. $\frac{1}{3}+\frac{1}{4}=$ ______
   A. $\frac{1}{12}$ B. $\frac{2}{12}$ C. $\frac{7}{12}$ D. $\frac{2}{7}$

2. Complete the following. (5 marks)

1. $\frac{1}{4}$ hour = ______ minutes.
2. The simplest form of $\frac{12}{18}$ is ______
3. $3\frac{3}{4}\times1\frac{1}{3}=$ ______
4. If $1\frac{1}{5}+x=5$, then $x=$ ______
5. If $b-2\frac{5}{7}=3\frac{3}{7}$, then b = ______

3. a. Adel studied Mathematics for $1\frac{1}{3}$ hour and English for 50 minutes. How many minutes did Adel study in all? (2 marks)

______

______

b. Evaluate each of the following. (3 marks)

1. $\frac{1}{3}\times\frac{1}{4}$ 2. $1\frac{1}{2}\times2$

______

______



Test 2

1. Choose the correct answer. (5 marks)

1. The fraction $\frac{10}{15}$ is equivalent to ....

   A. $\frac{4}{6}$ B. $\frac{2}{5}$ C. $1\frac{1}{2}$ D. $\frac{20}{33}$

2. $\frac{3}{7}+\frac{4}{7}=$ ....

   A. $\frac{7}{14}$ B. $\frac{4}{4}$ C. $\frac{21}{28}$ D. $\frac{12}{49}$

3. The opposite model area represents ....

   A. $\frac{4}{3}\times\frac{1}{3}$ B. $1\frac{1}{3}\times 2$ C. $2\times\frac{1}{3}\times\frac{1}{3}$ D. $2+\frac{1}{3}$

1	$\frac{1}{3}$
1	$\frac{1}{3}$

4. The simplest form of $\frac{10}{15}$ is ....

   A. $\frac{2}{3}$ B. $\frac{5}{10}$ C. $\frac{1}{3}$ D. $\frac{3}{3}$

5. If $\frac{8}{9}\times b=\frac{8}{9}$, then b = ...

   A. $\frac{8}{9}$ B. $\frac{4}{9}$ C. $\frac{1}{2}$ D. 1

2. Complete the following. (5 marks)

1. $3\frac{7}{8}+\frac{1}{4}=4+$ ....
2. 60 hours = ... days.
3. If $x+5\frac{5}{6}=9\frac{1}{12}$, then $x=$ ....
4. The L.C.M of the denominators of the fractions $\frac{1}{3}$ and $\frac{5}{12}$ is ....
5. $5-\frac{1}{2}-\frac{1}{3}=$ ....

3. a. Use the number line to find the difference. (2 marks)

1. $4\frac{1}{3}-1\frac{1}{2}$ 2. $6\frac{4}{5}-4\frac{1}{4}$

....

....

b. Marwan ate $\frac{3}{4}$ pieces of chocolate. His friend Wael ate $1\frac{1}{2}$ pieces more than him. How many pieces did they eat together? (3 marks)

....

....

Test 1

Total mark
5

1 Choose the correct answer : (3 marks)

1. $1 - \frac{1}{3} - \frac{1}{5} =$ ....

   (a) $\frac{7}{20}$ (b) $\frac{7}{15}$

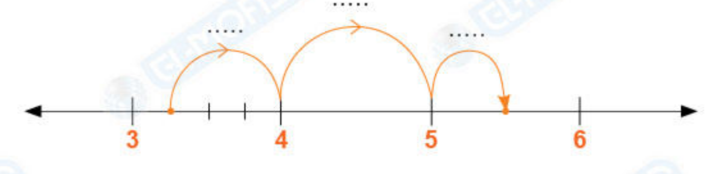
   (c) $\frac{12}{17}$ (d) $\frac{5}{8}$

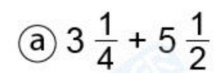
2. If $5\frac{n}{18}$ is about 5 , then n may be ....

   (a) 8 (b) 17

   (c) 2 (d) 12

3. The opposite number line is used to solve the problem ....





   (a) $3\frac{1}{4} + 5\frac{1}{2}$ (b) $3\frac{1}{4} - 2\frac{1}{2}$

   (c) $5\frac{1}{2} - 3\frac{1}{4}$ (d) $5\frac{1}{4} + 3\frac{1}{2}$

2 Nancy spends $\frac{2}{7}$ of her salary for food and uses $\frac{1}{2}$ of her salary for paying the house rent. **What fraction of salary is left ?** (2 marks)

....

....

....

....

Test 2



1 Choose the correct answer : (3 marks)

1. $2\frac{1}{3}$ hours = ... minutes

   ⓐ 150 ⓑ 120

   ⓒ 130 ⓓ 140

2. $X + 4\frac{1}{4} = 5\frac{1}{2}$, then X = ...

   ⓐ $\frac{1}{2}$ ⓑ $\frac{1}{4}$

   ⓒ $1\frac{1}{2}$ ⓓ $1\frac{1}{4}$

3. Which of the following is underestimate ?

   ⓐ $\frac{3}{4} + \frac{3}{8}$ is about $1\frac{1}{2}$ ⓑ $\frac{5}{8} + \frac{4}{7}$ is about 1

   ⓒ $\frac{4}{5} + \frac{2}{5}$ is about $1\frac{1}{2}$ ⓓ $\frac{3}{7} + \frac{4}{10}$ is about 1

---

2 Zeiad walked $1\frac{3}{4}$ km, Ahmed walked $\frac{1}{5}$ km more than Zeiad and Ramy walked $\frac{3}{10}$ km less than Ahmed.

How many km Ramy walked ? (2 marks)

....

....

....

....

Test 3



1 Choose the correct answer : (3 marks)

1. Which of the following is not equivalent to $\frac{15}{20}$?

   a) $\frac{3}{4}$ b) $\frac{30}{40}$

   c) $\frac{25}{100}$ d) $\frac{9}{12}$

2. Using the fraction tiles , the sum of : $\frac{2}{3} + \frac{5}{6} =$ ....

   a) $1\frac{1}{2}$ b) $\frac{7}{9}$

   c) $\frac{4}{3}$ d) $\frac{11}{6}$

3. $1\frac{4}{5} - 1\frac{1}{20} =$ ....

   a) $\frac{7}{20}$ b) $\frac{4}{3}$

   c) $\frac{3}{4}$ d) $1\frac{1}{5}$

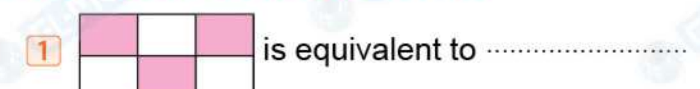
2 Estimate the sum and the difference using the benchmarks 0 , $\frac{1}{2}$ and 1 (2 marks)

1. $\frac{7}{8} - \frac{1}{5} =$ ....
2. $\frac{5}{9} + \frac{4}{7} =$ ....

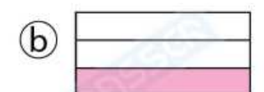
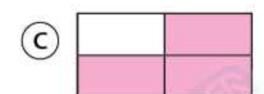
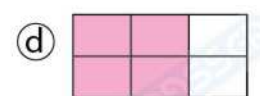
Test 4



1 Choose the correct answer : (3 marks)



1. [figure] is equivalent to ....

ⓐ  ⓑ  ⓒ  ⓓ 

2. $\frac{3}{4}$ year = ... months

ⓐ 3 ⓑ 6 ⓒ 9 ⓓ 12

3. $9\frac{4}{7} - 9\frac{1}{7} =$ ....

ⓐ 0 ⓑ $9\frac{3}{7}$ ⓒ $\frac{3}{7}$ ⓓ $1\frac{2}{7}$

2 Marwan studied math for $3\frac{1}{2}$ hours and science for 90 minutes.

How many hours did Marwan study in all ? (2 marks)



Test 5



1 Choose the correct answer : (3 marks)

1. $2\frac{1}{3} + 1\frac{2}{5}$ can be rewrite as ....

   (a) $\frac{6}{3} + \frac{5}{5}$
   (b) $\frac{7}{3} + \frac{5}{7}$
   (c) $(2 + 1) + (\frac{1}{3} + \frac{2}{5})$
   (d) $3\frac{1}{2} + 5\frac{1}{2}$

2. Two fractions $3\frac{2}{3}$ and $5\frac{1}{6}$ with like denominators are ....

   (a) $3\frac{2}{3}$ and $5\frac{1}{6}$
   (b) $\frac{11}{3}$ and $\frac{31}{3}$
   (c) $3\frac{4}{6}$ and $5\frac{1}{6}$
   (d) $3\frac{2}{3}$ and $5\frac{2}{6}$

3. $\frac{5}{12} + \frac{1}{4}$ ◯ $\frac{1}{3} + \frac{1}{4}$

   (a) $>$
   (b) $<$
   (c) $=$

2 Use an area model to add. (2 marks)

$2\frac{3}{5} + 1\frac{1}{2} =$ ....



Answers of Test 1

1 1 b   2 c   3 c

2 Nancy spent = $\frac{2}{7} + \frac{1}{2} = \frac{4}{14} + \frac{7}{14} = \frac{11}{14}$ of her salary

The left = $1 - \frac{11}{14} = \frac{14}{14} - \frac{11}{14} = \frac{3}{14}$ of her salary.

Another solution :

The left = $1 - \frac{2}{7} - \frac{1}{2} = \frac{14}{14} - \frac{4}{14} - \frac{7}{14} = \frac{3}{14}$ of her salary

Answers of Test 2

1 1 d   2 d   3 b

2 Ahmed walked = $1\frac{3}{4} + \frac{1}{5} = 1\frac{15}{20} + \frac{4}{20} = 1\frac{19}{20}$ km

Ramy walked = $1\frac{19}{20} - \frac{3}{10} = 1\frac{19}{20} - \frac{6}{20} = 1\frac{13}{20}$ km

Answers of Test 3

1 1 c   2 a   3 c

2 1 $1 - 0 = 1$ 2 $\frac{1}{2} + \frac{1}{2} = 1$

Answers of Test 4

1 1 a   2 c   3 c

2 The total time = $3\frac{1}{2}$ hours + 90 minutes = $3\frac{1}{2} + 1\frac{1}{2} = (3 + 1) + (\frac{1}{2} + \frac{1}{2})$

$= 4 + 1 = 5$ hours.

Answers of Test 5

1 1 c   2 c   3 a

2 + $= 3\frac{11}{10} = 4\frac{1}{10}$

Pre-study

Finding simplest form

Find the simplest form (using the numerator as GCF.)

Ex / $\frac{3}{6} = \frac{3 \div 3}{6 \div 3} = \frac{1}{2}$

$\frac{2}{6} =$ $\frac{2}{8} =$ $\frac{2}{12} =$ $\frac{2}{10} =$

$\frac{3}{6} =$ $\frac{3}{9} =$ $\frac{3}{12} =$ $\frac{3}{24} =$

$\frac{4}{8} =$ $\frac{4}{20} =$ $\frac{4}{12} =$ $\frac{4}{24} =$

Find the simplest form (after finding GCF.)

Ex / $\frac{6}{8} = \frac{6 \div 2}{8 \div 2} = \frac{3}{4}$

$\frac{8}{12} =$ $\frac{6}{8} =$ $\frac{4}{10} =$ $\frac{10}{14} =$

$\frac{9}{21} =$ $\frac{6}{27} =$ $\frac{12}{15} =$ $\frac{15}{24} =$

$\frac{15}{20} =$ $\frac{24}{32} =$ $\frac{25}{35} =$ $\frac{12}{18} =$

Change into mixed number

Ex / $\frac{12}{5} = 2\frac{2}{5}$

$\frac{11}{5} =$ $\frac{15}{4} =$ $\frac{9}{2} =$ $\frac{12}{5} =$

$\frac{22}{5} =$ $\frac{23}{4} =$ $\frac{19}{4} =$ $\frac{20}{3} =$

$\frac{26}{8} =$ $\frac{17}{7} =$ $\frac{20}{6} =$ $\frac{35}{4} =$

Finding equivalent fractions

Find the missing number

$\frac{2}{6} = \frac{.....}{3}$ $\frac{2}{8} = \frac{6}{.....}$ $\frac{2}{12} = \frac{.....}{6}$ $\frac{4}{10} = \frac{.....}{40}$

$\frac{12}{15} = \frac{.....}{5}$ $\frac{6}{8} = \frac{3}{.....}$ $\frac{12}{18} = \frac{.....}{3}$ $\frac{3}{8} = \frac{.....}{40}$

$\frac{15}{25} = \frac{.....}{5}$ $\frac{9}{27} = \frac{3}{.....}$ $\frac{20}{24} = \frac{.....}{6}$ $\frac{28}{40} = \frac{7}{.....}$

$\frac{8}{24} = \frac{.....}{3}$ $\frac{5}{7} = \frac{10}{.....}$ $\frac{9}{12} = \frac{.....}{4}$ $\frac{18}{36} = \frac{3}{.....}$

Choose the correct answer

The fraction $\frac{3}{7}$ is equivalent to .... ($\frac{13}{17}$, $\frac{15}{21}$, $\frac{31}{71}$, $\frac{6}{14}$)

The simplest form of $\frac{6}{12}$ is .... ($\frac{1}{2}$, $\frac{2}{3}$, $\frac{5}{6}$, $\frac{12}{6}$)

The fraction $\frac{5}{6}$ is equivalent to .... ($\frac{15}{16}$, $\frac{10}{8}$, $1\frac{1}{5}$, $\frac{20}{24}$)

The fraction $\frac{4}{5}$ is equivalent to .... ($\frac{8}{16}$, $\frac{10}{15}$, $\frac{8}{10}$, $\frac{20}{24}$)

The fraction $\frac{10}{15}$ is equivalent to .... ($\frac{15}{16}$, $\frac{10}{8}$, $\frac{2}{3}$, $\frac{20}{5}$)

The fraction $\frac{8}{10}$ is equivalent to .... ($\frac{16}{30}$, $\frac{16}{20}$, $\frac{4}{20}$, $\frac{4}{40}$)

The fraction $\frac{30}{35}$ is equivalent to .... ($\frac{15}{21}$, $\frac{6}{7}$, $1\frac{1}{5}$, $\frac{10}{15}$)

The fraction $\frac{5}{6}$ is equivalent to .... ($\frac{15}{30}$, $\frac{10}{8}$, $\frac{25}{30}$, $\frac{25}{36}$)

Unit 7

Complete the following :-

1) $\frac{3}{4} = \frac{.....}{24}$
2) $\frac{6}{8} = \frac{.....}{4}$
3) $\frac{16}{20} = \frac{.....}{.....}$ (simplest form)
4) $3\frac{6}{12} = \frac{.....}{.....}$ (simplest form)
5) $\frac{24}{28} = \frac{.....}{7}$
6) If $2\frac{5}{8} = 2\frac{x}{40}$ then x = ...
7) The LCM of denominators of $\frac{5}{6}$ and $\frac{1}{4}$ is ....
8) The LCM of denominators of $\frac{3}{18}$ and $\frac{1}{9}$ is ....
9) The LCM of denominators of $\frac{5}{7}$ and $\frac{3}{4}$ is ....
10) The LCM of denominators of $\frac{7}{12}$ and $\frac{5}{18}$ is ....
11) The LCM of denominators of $\frac{1}{6}$ and $\frac{4}{5}$ is ....
12) The LCM of denominators of $\frac{2}{3}$ and $\frac{4}{9}$ is ....
13) $\frac{1}{4} + \frac{3}{8} =$ ....
14) $\frac{3}{4} + \frac{1}{3} =$ ....
15) $\frac{7}{12} - \frac{1}{3} =$ ....
16) $\frac{5}{12} - \frac{7}{36} =$ ....
17) $1 + \frac{1}{2} + \frac{3}{4} =$ ....
18) $\frac{1}{6} + \frac{3}{8} =$ ....
19) 1 - .... = $\frac{3}{4}$
20) 1 - .... = $\frac{5}{8}$
21) $1 + \frac{7}{10} + \frac{3}{4} =$ ....
22) $\frac{2}{3} - k = \frac{1}{4}$, then k = ...
23) $K - \frac{1}{5} = \frac{1}{6}$, then k = ...

24) $\frac{3}{5} + \frac{1}{2} =$ ....

25) $\frac{6}{9} - \frac{3}{9} =$ ....

26) $b - \frac{5}{7} = \frac{1}{4}$, then b = ...

27) $\frac{7}{14} + k = 1$, then k = ...

28) $\frac{4}{7} + \frac{1}{3} = \frac{x}{21} + \frac{7}{21}$, then X = ...

29) Yara bought a chocolate and ate $\frac{5}{9}$ of it in the morning and $\frac{1}{3}$ in the evening . how much part of the chocolate has she eaten ?

....

30) If a cup can hold $\frac{1}{4}$ liter of liquid Rose poured $\frac{1}{5}$ liter of milk into the cup , how much milk can Rose add to get the cup full ?

....

Unit 8

Find equivalent mixed number

1) $3\frac{1}{3} = (2 + 1 + \frac{1}{3})$

$= (2 + \frac{3}{3} + \frac{1}{3})$

$= (2 + \frac{4}{3})$

$= 2\frac{4}{3}$

2) $3\frac{3}{4} = (\ldots + \ldots + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots} + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots})$

$= \ldots\frac{\ldots}{\ldots}$

3) $5\frac{2}{7} = (\ldots + \ldots + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots} + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots})$

$= \ldots\frac{\ldots}{\ldots}$

4) $7\frac{2}{4} = (\ldots + \ldots + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots} + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots})$

$= \ldots\frac{\ldots}{\ldots}$

5) $4\frac{4}{3} = (\ldots + \ldots + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots} + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots})$

$= \ldots\frac{\ldots}{\ldots}$

6) $8\frac{6}{4} = (\ldots + \ldots + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots} + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots})$

$= \ldots\frac{\ldots}{\ldots}$

6) $5\frac{6}{5} = (\ldots + \ldots + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots} + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots})$

$= \ldots\frac{\ldots}{\ldots}$

6) $3\frac{5}{4} = (\ldots + \ldots + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots} + \frac{\ldots}{\ldots})$

$= (\ldots + \frac{\ldots}{\ldots})$

$= \ldots\frac{\ldots}{\ldots}$

Complete the chart

Mixed number	Improper fraction equivalent	Mixed number equivalent
$3\frac{1}{3}$	$\frac{\dots}{\dots}$	$2\frac{\dots}{\dots}$
$2\frac{5}{8}$	$\frac{\dots}{\dots}$	$1\frac{\dots}{\dots}$
$\dots\frac{\dots}{\dots}$	$\frac{28}{5}$	$3\frac{\dots}{\dots}$
$4\frac{3}{4}$	$\frac{\dots}{\dots}$	$3\frac{\dots}{\dots}$
$\dots\frac{\dots}{\dots}$	$\frac{9}{2}$	$2\frac{\dots}{\dots}$

Adding and subtracting mixed numbers with like denominators

Using improper fractions	Using decomposing
Ex $2\frac{3}{5} + 3\frac{1}{5} = \dots\dots\dots$ $\frac{13}{5} + \frac{16}{5} = \frac{29}{5} = 5\frac{4}{5}$	**Ex** $3\frac{2}{7} + 1\frac{3}{7} = \dots\dots\dots$ $(3 + 1) + (\frac{2}{7} + \frac{3}{7})$ $= 4\frac{5}{7}$

Practice

$1\frac{3}{5} + 3\frac{1}{5} = \dots\dots\dots$

$2\frac{5}{6} + 2\frac{3}{6} = \dots\dots\dots$

$1\frac{2}{3} + 3\frac{2}{3} = \dots\dots\dots$

$8\frac{3}{7} - 8\frac{1}{7} = \dots\dots\dots$

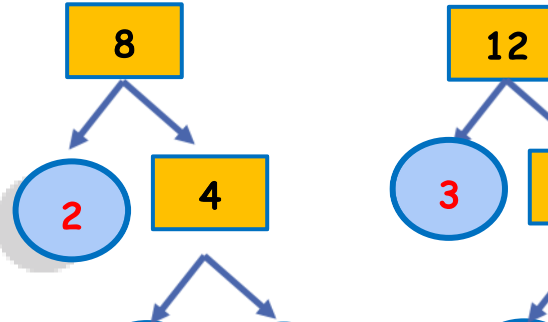
$3\frac{2}{5} - 1\frac{4}{5} = \dots\dots\dots$

$2\frac{2}{5} + 1\frac{1}{2} = \dots\dots\dots$

Finding the like denominators of the mixed numbers

Ex $2\frac{4}{8}\ ,\ 1\frac{9}{12} =$ ……………

$2\frac{4}{8} = 2\frac{12}{24}$, $1\frac{9}{12} = 1\frac{18}{24}$



$8 = 2 \times 2 \times 2$

$12 = 2 \times 2 \times 3$

$LCM = 2 \times 2 \times 2 \times 3 = 24$

Rewrite with like denominators in two different ways

Ex $1\frac{3}{8}\ ,\ 3\frac{12}{15}$

1st way using LCM	2nd way using simplifying
LCM of 8 & 15 is 120 $1\frac{3}{8} = 1\frac{45}{120}$, $3\frac{12}{15} = 3\frac{96}{120}$ Two fractions : $1\frac{45}{120}$ & $3\frac{96}{120}$	$1\frac{3}{8}$ as the same , $3\frac{12}{15} = 3\frac{4}{5}$ $1\frac{3}{8}$ & $3\frac{4}{5}$ LCM of 8 & 5 is 40 Two fractions $1\frac{15}{40}$ & $3\frac{32}{40}$

Practice

$2\frac{8}{12}\ ,\ 3\frac{6}{8} =$ …………… and ………………

$2\frac{9}{18}\ ,\ 2\frac{14}{24} =$ …………… and ………………

Adding and subtracting mixed numbers with unlike denominators

Using improper fractions	Using decomposing
Ex $2\frac{3}{5} + 3\frac{3}{4} =$ .... $\frac{13}{5} + \frac{15}{4} =$ $\frac{52}{20} + \frac{75}{20} = \frac{127}{20} = 6\frac{7}{20}$	**Ex** $2\frac{3}{5} + 3\frac{3}{4} =$ .... $(2 + 3) + (\frac{3}{5} + \frac{3}{4})$ $= 5 + (\frac{12}{20} + \frac{15}{20})$ $= 5 + \frac{27}{20} = 5\frac{27}{20}$ $= 6\frac{7}{20}$

Practice

- $4\frac{2}{3} + 2\frac{3}{4} =$ ....
- $8\frac{1}{5} + 9\frac{2}{3} =$ ....
- $2\frac{5}{6} - 1\frac{2}{3} =$ ....
- $3\frac{1}{2} - 2\frac{2}{3} =$ ....
- $4\frac{1}{6} - 2\frac{5}{12} =$ ....

Adding and subtracting mixed numbers by adjusting

Use give & take strategy to find

- $4\frac{7}{10} + 3\frac{2}{5} =$ ....

$= 4\frac{7}{10} + \frac{3}{10} + 3\frac{2}{5} - \frac{3}{10}$

$= 5 + 3 + \frac{4}{10} - \frac{3}{10} = 8\frac{1}{10}$

- $5\frac{3}{7} - 2\frac{4}{7} =$ ....

$= (5\frac{3}{7} + \frac{3}{7}) - (2\frac{4}{7} + \frac{3}{7})$

$= 5\frac{6}{7} - 3 = 2\frac{6}{7}$

Practice

$3\frac{7}{8} + \frac{1}{4} = 4 +$ ....

$7\frac{5}{7} - 5\frac{6}{7} =$ .... $- 6$

$1\frac{5}{6} + 3\frac{1}{3} = 2 +$ ....

$6\frac{1}{8} - 3\frac{3}{4} =$ .... $- 4$

Story problems with mixed numbers

One year = 12 months

One day = 24 hours

One hour = 60 minutes

One minute = 60 seconds

Remember

Faction of units of time

$\frac{1}{2}$ year = $\frac{6}{12}$ year = 6 months

$\frac{1}{3}$ year = $\frac{4}{12}$ year = 4 months

$\frac{1}{4}$ year = $\frac{3}{12}$ year = 3 months

$\frac{1}{2}$ day = $\frac{12}{24}$ day = 12 hours

$\frac{1}{3}$ day = $\frac{8}{24}$ day = 8 hours

$\frac{1}{4}$ day = $\frac{6}{24}$ day = 6 hours

$\frac{1}{2}$ hour = $\frac{30}{60}$ hour = 30 min.

$\frac{1}{3}$ hour = $\frac{20}{60}$ hour = 20 min.

$\frac{1}{4}$ hour = $\frac{15}{60}$ hour = 15 min.

$\frac{3}{4}$ hour = $\frac{45}{60}$ hour = 45 min.

$\frac{5}{6}$ hour = $\frac{50}{60}$ hour = 50 min

Exercise

- $8\frac{1}{5} + 9\frac{2}{3} =$ ....
- $2\frac{5}{6} - 1\frac{2}{3} =$ ....
- $12\frac{3}{4} + 3\frac{6}{12} =$ ....
- $7\frac{5}{14} - 3\frac{2}{7} =$ ....
- $5\frac{4}{5} + 4\frac{5}{6} =$ ....
- $11\frac{2}{9} - 3\frac{3}{4} =$ ....
- $J + 3\frac{3}{4} = 9\frac{2}{4}$ $J =$ ....
- $2\frac{4}{8} - d = 1\frac{1}{8}$ $d =$ ....
- $X + 1\frac{3}{5} = 4\frac{1}{2}$ $X =$ ....
- $Y - 2\frac{2}{7} = 1\frac{3}{8}$ $Y =$ ....

- $2\frac{3}{5} + M = 3\frac{1}{2}$ M = ………………
- $2\frac{5}{7} + K = 4\frac{3}{14}$ K = ………………
- $3\frac{7}{8} + \frac{1}{4} = 4 +$ ………………
- $7\frac{5}{7} - 5\frac{6}{7} =$ ……………… $- 6$
- $1\frac{5}{6} + 3\frac{1}{3} = 2 +$ ………………
- $6\frac{1}{8} - 3\frac{3}{4} =$ ……………… $- 4$
- $\frac{3}{4}$ hours = ……… min .
- $2\frac{1}{2}$ hours = ……… min .
- $2\frac{1}{3}$ hours = ……… hours and ……… min .
- 2 hours and 15 min. = ……… min .
- $4\frac{3}{4}$ hours = ……… hours and ……… min .

- $\frac{1}{6}$ day = ……… hours .
- $\frac{3}{4}$ years = ……… months .
- 200 min = ……… hours .
- $6\frac{1}{2}$ year = ……… years and ……… months .
- $2\frac{1}{6}$ hours = ……… min .
- 30 months = ………… years .
- 80 minutes = …………… hours .
- Yara spends $\frac{3}{7}$ of her money on candy and $\frac{1}{5}$ of her money on toys and saves the left money, what fraction of money does Yara save ?

  ……………………………………………………………………………………………

- Maria studied Math for $2\frac{1}{4}$ hours and Science for 45 min , how many hours did Maria study in all ?

  ……………………………………………………………………………………………

- Farida took $2\frac{1}{3}$ hours to paint a table and $1\frac{1}{4}$ hours to paint a chair , how much time did she take in all ?

  ……………………………………………………………………………………………

Answers

- $8\frac{1}{5} + 9\frac{2}{3} = 8\frac{3}{15} + 9\frac{10}{15} = 17\frac{13}{15}$
- $2\frac{5}{6} - 1\frac{2}{3} = 2\frac{5}{6} - 1\frac{4}{6} = 1\frac{1}{6}$
- $12\frac{3}{4} + 3\frac{6}{12} = 12\frac{9}{12} + 3\frac{6}{12} = 15\frac{15}{12} = 16\frac{3}{12} = 15\frac{1}{4}$
- $7\frac{5}{14} - 3\frac{2}{7} = 7\frac{5}{14} - 3\frac{4}{14} = 4\frac{1}{14}$
- $5\frac{4}{5} + 4\frac{5}{6} = 5\frac{24}{30} + 4\frac{25}{30} = 9\frac{49}{30} = 10\frac{19}{30}$
- $11\frac{2}{9} - 3\frac{3}{4} = 11\frac{8}{36} - 3\frac{27}{36} = 10\frac{44}{36} - 3\frac{27}{36} = 7\frac{17}{36}$

let student use bar model to solve following equations

- $J + 3\frac{3}{4} = 9\frac{2}{4}$ $J = 9\frac{2}{4} - 3\frac{3}{4} = 8\frac{6}{4} - 3\frac{3}{4} = 5\frac{3}{4}$
- $2\frac{4}{8} - d = 1\frac{1}{8}$ $d = 2\frac{4}{8} - 1\frac{1}{8} = 1\frac{3}{8}$
- $X + 1\frac{3}{5} = 4\frac{1}{2}$ $X = 4\frac{1}{2} - 1\frac{3}{5} = 4\frac{5}{10} - 1\frac{6}{10} = 3\frac{15}{10} - 1\frac{6}{10} = 2\frac{9}{10}$
- $Y - 2\frac{2}{7} = 1\frac{3}{8}$ $Y = 2\frac{16}{56} + 1\frac{21}{56} = 3\frac{37}{56}$

- $2\frac{3}{5} + M = 3\frac{1}{2}$ $M = 3\frac{1}{2} - 2\frac{3}{5} = \frac{9}{10}$

- $2\frac{5}{7} + K = 4\frac{3}{14}$ $K = 4\frac{3}{14} - 2\frac{5}{7} = \frac{3}{2}\ 1\frac{1}{2}$

- $3\frac{7}{8} + \frac{1}{4} = 4 + \frac{1}{8}$

- $7\frac{5}{7} - 5\frac{6}{7} =$ …………… $- 6$ (by adding $\frac{1}{7}$ to the two fractions)

  $7\frac{5}{7} + \frac{1}{7} - 5\frac{6}{7} + \frac{1}{7} = 7\frac{6}{7} - 6$

- $1\frac{5}{6} + 3\frac{1}{3} = 2 +$ …………

  $1\frac{5}{6} + 3\frac{1}{3} = 1\frac{5}{6} + 3\frac{2}{6} = 4\frac{7}{6} - 2 = 2\frac{7}{6} = 3\frac{1}{6}$

(you can use any strategy you prefer , give & take strategy or bar model)

- $6\frac{1}{8} - 3\frac{3}{4} =$ …………… $- 4$

  $6\frac{1}{8} + \frac{1}{4} - 3\frac{3}{4} + \frac{1}{4} = 6\frac{3}{8} - 4$

- $\frac{3}{4}$ hours = 45 min .

- $2\frac{1}{2}$ hours = 150 min .

- $2\frac{1}{3}$ hours = 2 hours and 20 min .

- 2 hours and 15 min. = 135 min .

- $4\frac{3}{4}$ hours = 4 hours and 45 min .
- $\frac{1}{6}$ day = 4 hours .
- $\frac{3}{4}$ years = 9 months .
- 200 min = $3\frac{1}{3}$ hours .
- $6\frac{1}{2}$ year = 6 years and 6 months .
- $2\frac{1}{6}$ hours = 130 min .
- 30 months = = $2\frac{1}{2}$ years .
- 80 minutes = = $1\frac{1}{3}$ hours .

- Farida spends $\frac{3}{7}$ of her money on candy and $\frac{1}{5}$ of her money on toys and saves the left money, what fraction of money does Yara save ?

  Total she spent = $\frac{3}{7} + \frac{1}{5} = \frac{22}{35}$ of money

  Total she saves = $1 - \frac{22}{35} = \frac{35}{35} - \frac{22}{35} = \frac{13}{35}$ of money

  Note / 1 refers to whole money that she has .

- Malak studied Math for $2\frac{1}{4}$ hours and Science for 45 min , how many hours did Maria study in all ?

  No of hours she studied = $2\frac{1}{4} + \frac{3}{4} = 2\frac{4}{4}$ = 3 hours .

- Yara took $2\frac{1}{3}$ hours to paint a table and $1\frac{1}{4}$ hours to paint a chair , how much time did she take in all ?

  Total time = $2\frac{1}{3} + 1\frac{1}{4} = 2\frac{4}{12} + 1\frac{3}{12} = 3\frac{7}{3}$ hours .

Units 7&8

Choose the correct answer

1. Equivalent fraction of $\frac{2}{8}$ is ______

A. $\frac{4}{8}$　B. $\frac{2}{4}$　C. $\frac{1}{4}$　D. $\frac{4}{10}$

2. The equivalent fraction of $\frac{3}{6}$ is ______

A. $\frac{3}{5}$　B. $\frac{2}{6}$　C. $\frac{15}{30}$　D. $\frac{2}{5}$

3. $\frac{17}{3}$ is equvalent to ______

A. $3\frac{1}{6}$　B. $7\frac{1}{2}$　C. $3\frac{2}{5}$　D. $5\frac{2}{3}$

4. $\frac{2}{4}$ is equivalent to ______

A. $\frac{5}{8}-\frac{1}{4}$　B. $\frac{7}{8}-\frac{1}{4}$　C. $\frac{5}{6}-\frac{1}{3}$　D. $1-\frac{5}{8}$

5. $2\frac{25}{40}$ is equivalent to ______

A. $2\frac{8}{5}$　B. $2\frac{10}{40}$　C. $2\frac{5}{8}$　D. $1\frac{12}{20}$

6. The fraction $\frac{5}{7}$ is equivalent to ______

A. $\frac{13}{17}$　B. $\frac{15}{21}$　C. $\frac{31}{71}$　D. $\frac{6}{17}$

7. Which of the following is correct ?

A. $\frac{3}{4}=\frac{4}{3}$　B. $\frac{5}{8}=\frac{15}{18}$　C. $\frac{1}{2}=\frac{6}{12}$　D. $\frac{3}{5}=\frac{5}{7}$

8. Which of the following is not equivalent to $\frac{6}{8}$?

A. $\frac{3}{4}$　B. $\frac{60}{80}$　C. $\frac{12}{18}$　D. $\frac{30}{40}$

9. $4\frac{3}{5} \neq$ ______

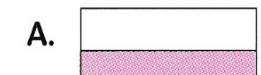
A. $8\frac{6}{10}$　B. $\frac{23}{5}$　C. $4\frac{6}{10}$　D. $3\frac{8}{5}$

Units 7&8

Choose the correct answer



10  is equivalent to ________

A. 　　B.　　C.　　D.

11 $\frac{5}{15}$ ________ $\frac{1}{3}$

A. >　　B. <　　C. =

12 The simplest form of $\frac{24}{36}$ is ________

A. $\frac{12}{18}$　　B. $\frac{6}{9}$　　C. $\frac{8}{12}$　　D. $\frac{2}{3}$

13 The smallest common denominator of the fractions $\frac{2}{3}$ and $\frac{4}{9}$ is ________

A. 3　　B. 6　　C. 9　　D. 12

14 The smallest like denominator of $\frac{2}{3}$ and $\frac{3}{4}$ is ________

A. 6　　B. 8　　C. 24　　D. 12

15 The L.C.M. of denominators of $\frac{5}{6}$ and $\frac{3}{8}$ is ________

A. 16　　B. 12　　C. 24　　D. 18

16 The two fractions $\frac{1}{5}$ and $\frac{1}{4}$ are equivalent to the two common denominator fractions ________

A. $\frac{4}{5}$ and $\frac{5}{4}$　　B. $\frac{4}{9}$ and $\frac{5}{9}$　　C. $\frac{4}{45}$ and $\frac{5}{45}$　　D. $\frac{5}{20}$ and $\frac{4}{20}$

17 Two fractions $3\frac{2}{3}$ and $5\frac{1}{6}$ with like denominators are ________

A. $3\frac{2}{3}$ and $5\frac{1}{6}$　　B. $\frac{11}{3}$ and $\frac{31}{3}$　　C. $3\frac{4}{6}$ and $5\frac{1}{6}$　　D. $3\frac{2}{3}$ and $5\frac{2}{6}$

18 If $\frac{4}{7}+\frac{1}{3}=\frac{x}{21}+\frac{7}{21}$, then $x=$ ________

A. 4　　B. 3　　C. 7　　D. 12

Units 7&8

Choose the correct answer

19. If $3\frac{1}{7} = 2\frac{X}{7}$ by regrouping , then X = ______

A. 1　　B. 2　　C. 3　　D. 8

20. The fraction $2\frac{1}{4}$ by regrouping is ______

A. $2\frac{5}{4}$　　B. $1\frac{5}{4}$　　C. $1\frac{2}{4}$　　D. $\frac{5}{4}$

21. $3\frac{4}{7}$ can be written as ______

A. 3　　B. 4　　C. $2\frac{11}{7}$　　D. $2\frac{4}{7}$

22. The mixed number $5\frac{3}{7}$ by regrouping is ______

A. $5\frac{3}{7}$　　B. $4\frac{10}{7}$　　C. $3\frac{10}{7}$　　D. $3\frac{8}{3}$

23. $\frac{3}{7} + \frac{4}{7} =$ ______

A. $\frac{7}{14}$　　B. 1　　C. $\frac{34}{77}$　　D. $1\frac{7}{7}$

24. $1\frac{1}{2} + 7\frac{1}{2} =$ ______

A. $8\frac{1}{2}$　　B. 9　　C. 8　　D. $8\frac{1}{4}$

25. $\frac{2}{6} + \frac{1}{6} + \frac{4}{6} + \frac{5}{6} =$ ______

A. 4　　B. 1　　C. 2　　D. 3

26. $\frac{3}{7} + \frac{2}{7} +$ ______ $= 1$

A. $\frac{1}{7}$　　B. $\frac{2}{7}$　　C. $\frac{3}{7}$　　D. $\frac{4}{7}$

27. $\frac{9}{12} - \frac{5}{12} =$ ______

A. 4　　B. $\frac{1}{3}$　　C. $\frac{14}{12}$　　D. $\frac{1}{4}$

Units 7&8

Choose the correct answer

28 $1 - ______ = \frac{5}{8}$

A. $\frac{5}{8}$ B. $\frac{3}{8}$ C. $\frac{6}{8}$ D. $\frac{8}{7}$

29 $\frac{5}{8} + \frac{1}{2} = 1 + ______$

A. $\frac{1}{2}$ B. $\frac{1}{8}$ C. $\frac{1}{5}$ D. $\frac{3}{4}$

30 If $5\frac{1}{4} + 2\frac{3}{4} = x - \frac{1}{3}$, then $x = ______$

A. $8\frac{1}{3}$ B. 8 C. $7\frac{3}{4}$ D. $7\frac{2}{3}$

31 $4\frac{5}{6} - 2\frac{1}{12} = ______$

A. $2\frac{3}{4}$ B. $3\frac{4}{3}$ C. $5\frac{5}{4}$ D. $2\frac{2}{7}$

32 $\frac{3}{4} + \frac{4}{5} = ______$

A. $\frac{7}{9}$ B. $\frac{7}{20}$ C. $1\frac{11}{20}$ D. $\frac{12}{20}$

33 $\frac{5}{6} - \frac{3}{5} = ______$

A. $\frac{8}{30}$ B. $\frac{9}{20}$ C. $\frac{7}{30}$ D. $\frac{3}{4}$

34 $1 - \frac{1}{3} - \frac{1}{5} = ______$

A. $\frac{7}{20}$ B. $\frac{7}{15}$ C. $\frac{12}{17}$ D. $\frac{5}{8}$

35 $5\frac{1}{4} - ______ = 3\frac{1}{2}$

A. $\frac{3}{4}$ B. $1\frac{3}{4}$ C. $4\frac{3}{4}$ D. $8\frac{3}{4}$

Units 7&8

Choose the correct answer

36 Ayman bought $\frac{3}{8}$ kilogram of apple and $\frac{1}{4}$ kilogram of banana , then the total weight of kilograms of apple and banana equivalent ______

A. $\frac{3}{8}+\frac{2}{8}$ B. $\frac{3}{2}+\frac{2}{4}$ C. $\frac{3}{2}\times\frac{1}{4}$ D. $\frac{3}{8}-\frac{1}{4}$

37 $2\frac{1}{2}$ days = ______ hours.

A. $\frac{5}{2}$ B. 48 C. 36 D. 60

38 $1\frac{1}{8}$ days = ______ hours

A. 24 B. 8 C. 27 D. 18

39 $2\frac{1}{3}$ hours = ______ minutes

A. 150 B. 120 C. 130 D. 140

40 $7\frac{3}{4}$ hours = ______ hours + ______ minute(s).

A. 7 , 30 B. 7 , $\frac{1}{2}$ C. 7 , 15 D. 7 , 45

Complete the following

1 $5\frac{4}{8} = 5\frac{}{2}$

2 $\frac{3}{4}-\frac{1}{4}=\frac{}{2}$

3 Simplest form of $\frac{15}{27}$ is ______

4 If $\frac{3}{4}=\frac{b}{16}$, then b = ______

5 L.C.M of the denominators of $\frac{2}{5}$ and $\frac{1}{3}$ is ______

6 The L.C.M for the denominators of two fraction $\frac{7}{15}$ and $\frac{3}{10}$ is ______

Units 7&8

Complete the following

7) $7\frac{2}{7}+1\frac{3}{7}=$ ....

8) $2\frac{5}{6}+3\frac{1}{6}=$ ....

9) $2\frac{1}{4}+2\frac{1}{4}=$ ....

10) $2\frac{3}{5}+1\frac{4}{5}=$ ....

11) $1\frac{7}{9}-1\frac{4}{9}=$ ....

12) $2\frac{1}{4}-1\frac{3}{4}=$ ....

13) $\frac{6}{7}+\frac{1}{42}=$ ....

14) $3\frac{3}{4}+9\frac{5}{12}=$ ....

15) $3-2\frac{1}{2}=$ ....

16) $3\frac{1}{2}-2\frac{3}{5}=$ ....

17) $\frac{7}{8}-\frac{2}{3}=$ ....

18) $5\frac{1}{2}-\frac{3}{4}=$ ....

19) $\frac{1}{6}+\frac{5}{8}=$ ....

20) $5\frac{1}{4}+3\frac{2}{9}=$ ....

21) $\frac{7}{13}+\frac{2}{13}-$ .... $=\frac{4}{13}$

22) $3\frac{7}{8}+\frac{1}{4}=4+$ ....

23) $1+\frac{7}{10}+\frac{1}{5}=$ ....

24) $1\frac{5}{8}+2\frac{7}{12}+\frac{1}{4}=$ ....

25) $5-\frac{1}{2}-\frac{1}{3}=$ ....

26) $2\frac{4}{5}+1\frac{3}{10}-1\frac{1}{2}=$ ....

27) If $5\frac{2}{7}+k=6\frac{5}{7}$, then $k=$ ....

28) If $2\frac{2}{3}-h=1$, then $h=$ ....

29) $X+5\frac{1}{2}=7\frac{3}{4}$, then $X=$ ....

30) $g-1\frac{3}{4}=7\frac{3}{44}$, then $g=$ ....

Units 7&8

Complete the following

31. If $\frac{23}{5}$ is equivalent to $m\frac{3}{5}$, then m = ...

32. If $3\frac{1}{5} - 2\frac{3}{5} = a\frac{6}{5} - 2\frac{3}{5}$, then a = ...

33. If $5\frac{1}{4} + 2\frac{3}{4} = X - \frac{1}{3}$, then X = ...

34. If $5\frac{3}{7} - 1\frac{4}{7} = 5\frac{6}{7} - a$, then a = ...

35. $7\frac{2}{5} + 1\frac{1}{4} = 8 + 1 + \frac{1}{4} -$ ....

36. $1\frac{5}{6} + 3\frac{1}{3} = 2 + 3\frac{1}{3} -$ ....

37. $\frac{1}{5}$ minute = ... seconds.

38. $\frac{1}{2}$ year = ... months

39. $2\frac{1}{4}$ years = ... months.

40. $2\frac{1}{3}$ hours = ... minutes.

41. 150 seconds = ... minutes

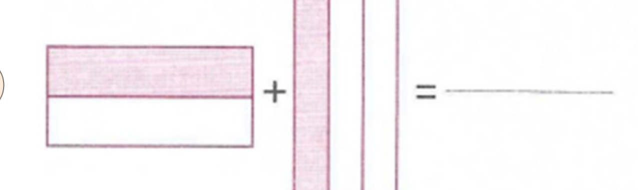
42. 200 minutes = ... hours.

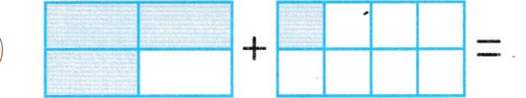
43. 18 hours = ... day.

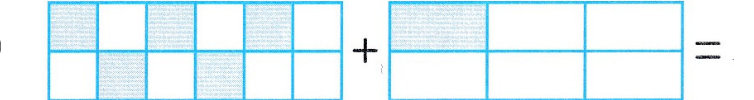
44. 60 hours = ... days.

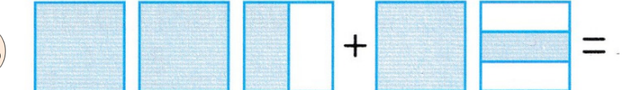
Complete the following

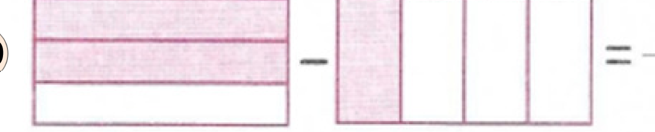


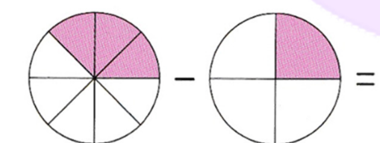
45  = ______

46  =

47  =

48  =

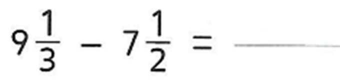
49  = ______

50  = ______

Answer the following

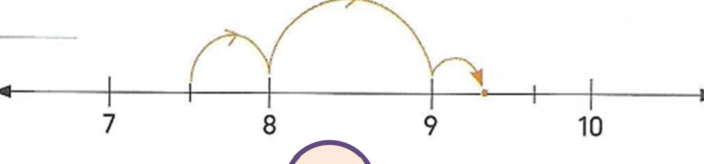
1 Use an area model to add.

$2\frac{3}{5} + 1\frac{1}{2} =$ ______



2 Use a number line to find the difference.

$9\frac{1}{3} - 7\frac{1}{2} =$ ______



Answer the following

3. Karim walked $\frac{1}{5}$ km and Sameh walked $\frac{1}{3}$ km more. What distance that Sameh walked ?

4. Omar ate $\frac{1}{4}$ of the pie , and Reham ate $\frac{1}{5}$ of the same pie. What is the total of what Omar and Reham ate ?

5. Marwan ate $1\frac{1}{2}$ pieces of chocolate. His friend Wael ate $\frac{3}{4}$ pieces of chocolate more than him. **How many pieces did they eat together ?**

6. Mazen bought $1\frac{1}{4}$ kg of tomato and $\frac{1}{2}$ kg of onion. His sister bought $2\frac{3}{4}$ kg of fruits. **How many kilograms did they buy ?**

7. Omnia purchases $\frac{7}{8}$ kilogram of fava beans. She uses $\frac{3}{4}$ kg of the fava beans to make falafel How many kilograms of fava beans are left ?

8. Marvina has a full bottle of juice. If she drinks $\frac{4}{7}$ of the juice and her sister drinks $\frac{2}{5}$ of the juice. **How much juice is left in the bottle ?**

9. Sameh ate $1\frac{3}{4}$ kg of fruits, Bassem ate $\frac{1}{5}$ kg more than Sameh and Wael ate $\frac{1}{2}$ kg less than Sameh. **How many kg of fruits did the three friends eat together ?**

10. Marwan studied Math for $2\frac{1}{2}$ hours and Science for 90 minutes. **How many hours did Marwan study in all ?**

11. In first day , Youssef run for $1\frac{1}{2}$ hours. In second day , he run for $1\frac{3}{8}$ hours. In third day , he run for 80 minutes. **How long did Youssef run in the three days ?**

The Answers

Choose the correct answer:

1. C	2. C	3. D	4. C	5. C
6. B	7. C	8. C	9. A	10. A
11. C	12. D	13. C	14. D	15. C
16. D	17. C	18. D	19. D	20. B
21. C	22. B	23. B	24. B	25. C
26. B	27. B	28. B	29. B	30. A
31. A	32. C	33. C	34. B	35. B
36. A	37. D	38. C	39. D	40. D

Complete the following:

1) 1	2) 1	3) $\frac{5}{9}$	4) 12
5) 15	6) 30	7) $8\frac{5}{7}$	8) 6
9) $4\frac{1}{2}$	10) $4\frac{2}{5}$	11) $\frac{1}{3}$	12) $\frac{1}{2}$
13) $\frac{37}{42}$	14) $13\frac{1}{6}$	15) $\frac{1}{2}$	16) $\frac{9}{10}$
17) $\frac{5}{24}$	18) $4\frac{3}{4}$	19) $\frac{19}{24}$	20) $8\frac{17}{36}$
21) $\frac{5}{13}$	22) $\frac{1}{8}$	23) $1\frac{9}{10}$	24) $4\frac{11}{24}$

The Answers

Complete the following:

25) $4\frac{1}{6}$ 26) $2\frac{3}{5}$ 27) $1\frac{3}{7}$

28) $1\frac{2}{3}$ 29) $2\frac{1}{4}$ 30) $8\frac{9}{11}$

31) 4 32) 2 33) $8\frac{1}{3}$

34) 2 35) $\frac{3}{5}$ 36) $\frac{1}{6}$

37) 12 38) 6 39) 27

40) 14 41) $2\frac{1}{2}$ 42) $3\frac{1}{3}$

43) $\frac{3}{4}$ 44) $2\frac{1}{2}$ 45) $\frac{5}{6}$

46) $\frac{7}{8}$ 47) $\frac{7}{12}$ 48) $3\frac{5}{6}$

49) $\frac{5}{12}$ 50) $\frac{1}{8}$

Answer the following:

1) $4\frac{1}{10}$ 2) $1\frac{5}{6}$

3) $\frac{1}{5} + \frac{1}{3} = \frac{8}{15}$ km

4) $\frac{1}{4} + \frac{1}{5} = \frac{9}{20}$ of pie

5) Wael = $1\frac{1}{2} + \frac{3}{4} = 2\frac{1}{4}$

they eat = $1\frac{1}{2} + 2\frac{1}{4} = 3\frac{3}{4}$ pieces

The Answers

Answer the following:

6) $1\frac{1}{4} + \frac{1}{2} + 2\frac{3}{4} = 4\frac{1}{2}$ Kg

7) the left = $\frac{7}{8} - \frac{3}{4} = \frac{1}{8}$ Kg

8) the left = $1 - \frac{4}{7} - \frac{2}{5} = \frac{1}{35}$

9) Sameh = $1\frac{3}{4}$ Bassem = $1\frac{3}{4} + \frac{1}{5} = 1\frac{19}{20}$

Wael = $1\frac{3}{4} - \frac{1}{2} = 1\frac{1}{4}$

they eat together = $1\frac{3}{4} + 1\frac{19}{20} + 1\frac{1}{4} = 4\frac{19}{20}$ kg

10) $2\frac{1}{2} + 1\frac{1}{2} = 4$ hours

11) $1\frac{1}{2} + 1\frac{3}{8} + 1\frac{1}{3} = 4\frac{5}{24}$ hours

General revision

February

1. Choose the correct answer:

1) The fraction $\frac{3}{7}$ is equivalent to ....

a. $\frac{13}{17}$ b. $\frac{15}{21}$ c. $\frac{31}{7}$ d. $\frac{6}{14}$

2) The simplest form of $\frac{6}{12}$ is ....

a. $\frac{1}{2}$ b. $\frac{2}{3}$ c. $\frac{5}{6}$ d. $\frac{12}{6}$

3) The simplest form of $4\frac{2}{10}$ is ....

a. $4\frac{3}{4}$ b. $4\frac{1}{5}$ c. $\frac{42}{10}$ d. $2\frac{3}{4}$

4) If $2\frac{5}{8} = 2\frac{X}{40}$, then x = ...

a. 25 b. 37 c. 40 d. 5 × 8

5) The smallest like denominators of $\frac{1}{3}$ and $\frac{2}{5}$ is ....

a. 35 b. 8 c. 15 d. 2

6) [diagram: rectangle of 6 parts with 4 shaded] + [rectangle of 6 parts with 2 shaded] = ...

a. $\frac{2}{3}$ b. $\frac{3}{4}$ c. 1 d. $\frac{5}{6}$

7) $\frac{2}{5} + \frac{3}{10}$ = ...

a. $\frac{5}{15}$ b. $\frac{7}{10}$ c. $\frac{5}{10}$ d. $\frac{1}{2}$

8) $\frac{4}{5} - \frac{3}{4}$ = ...

a. $\frac{7}{9}$ b. $\frac{1}{20}$ c. $1\frac{11}{20}$ d. $\frac{12}{20}$

9) If $\frac{5}{6} - a = \frac{1}{4}$, then the value of a is ....

a. $\frac{8}{16}$ b. $\frac{7}{16}$ c. $\frac{7}{12}$ d. $\frac{6}{6}$

10) If $1\frac{7}{14} - k = 1$, then the value of k = ...

a. $\frac{8}{14}$ b. $\frac{1}{2}$ c. $\frac{5}{14}$ d. $\frac{5}{7}$

11) If $\frac{4}{7} + \frac{1}{3} = \frac{x}{21} + \frac{7}{21}$, then x = ...

a. 4 b. 3 c. 7 d. 12

12) $\frac{2}{6} + \frac{1}{6} + \frac{4}{6} + \frac{5}{6} =$ ....

a. 4 b. 1 c. 2 d. 3

13) $5 - \frac{1}{2} =$ ....

a. $4\frac{1}{2}$ b. $\frac{5}{2}$ c. 5 d. 4

14) $1\frac{2}{5} + 2\frac{3}{5} =$ ....

a. 5 b. 6 c. 4 d. $3\frac{5}{10}$

15) $2\frac{1}{3}$ can be regrouped as ....

a. $1\frac{4}{3}$ b. $\frac{3}{7}$ c. $1\frac{2}{3}$ d. 7

16) If $3\frac{2}{3} - b = 1$, then the value of b = ...

a. 2 b. $2\frac{2}{3}$ c. 1 d. $\frac{2}{3}$

17) The fraction $\frac{19}{5}$ is equivalent to ....

a. $3\frac{2}{5}$ b. $4\frac{1}{5}$ c. $3\frac{3}{5}$ d. $3\frac{4}{5}$

18) $\frac{25}{3}$ .... $9\frac{1}{3}$

a. < b. > c. = d. Otherwise

19) $a + 5\frac{5}{6} = 9\frac{1}{12}$, then a = ...

a. $4\frac{4}{12}$ b. 4 c. $3\frac{1}{4}$ d. $4\frac{9}{12}$

20) $4\frac{3}{5} - 2\frac{1}{3}$ = ...

a. $2\frac{2}{5}$ b. 3 c. $2\frac{4}{15}$ d. $2\frac{2}{15}$

21) If $2\frac{1}{2} = 2\frac{4}{m}$, then m = ...

a. 4 b. 8 c. 12 d. 16

22) $5\frac{1}{4}$ .... $5\frac{2}{8}$

a. > b. < c. = d. Otherwise

23) $2\frac{1}{3}$ hours = ... minutes

a. 150 b. 120 c. 130 d. 140

24) $1\frac{1}{8}$ days = ... hours

a. 24 b. 8 c. 27 d. 18

25) $3\frac{1}{2}$ hours = ... hours + ... minutes

a. 3 , 30 b. 3 , $\frac{1}{2}$ c. 3 , 20 d. 4 , 2

---

2. Complete:

1) If $\frac{5}{7} = \frac{a}{35}$, then a = ...

2) $\frac{24}{28} = \frac{\dots\dots}{7}$

3) The simplest form of $\frac{6}{8}$ is ....

4) The L.C.M of the denominators of $\frac{1}{3}$ and $\frac{5}{12}$ is ....

5) $\frac{3}{5} + \frac{1}{2}$ = ...

6) $\frac{5}{8} + \frac{1}{4} =$ ....

7) If $\frac{2}{5} + y = \frac{3}{5}$, then y = ...

8) $\frac{6}{8} - \frac{3}{8} =$ ....

9) $\frac{1}{2} - \frac{2}{6} =$ ....

10) $1 - \frac{2}{7} =$ ....

11) 1 – ...... $= \frac{5}{7}$

12) If $g - \frac{6}{8} = \frac{7}{8}$, then g = ...

13) $2\frac{1}{4} + 2\frac{3}{4} =$ ....

14) $2\frac{3}{5} + 1\frac{4}{5} =$ .... (in simplest form)

15) $4\frac{5}{6} - 2\frac{1}{6} =$ ....

16) If $x + 2\frac{1}{7} = 6\frac{4}{7}$, then x = ...

17) If $m - 3\frac{2}{7} = 2\frac{5}{7}$, then the value of m = ...

18) $3\frac{1}{8} + 2\frac{1}{3} =$ ....

19) $6\frac{2}{3} - 3\frac{1}{4} =$ ....

20) $7\frac{3}{8} +$ .... $= 9\frac{1}{4}$

21) $7 - 2\frac{3}{5} =$ ....

22) $4\frac{8}{9} = 4 +$ ....

23) $3\frac{3}{4} + 9\frac{5}{12} =$ .... (in simplest form)

24) If $R - 2\frac{1}{2} = 3\frac{1}{4}$, then the value of R = ...

25) $1\frac{1}{2}$ hours = ... minutes

26) $\frac{1}{2}$ year = ... months

27) $4\frac{3}{4}$ hours = ... hours and .... minutes

28) $6\frac{1}{2}$ years = ... years and .... months

29) 2 hours and 15 minutes = ... minutes

30) 80 minutes = ... hours (as mixed number)

3. *Answer the following:*

1) Essam bought $\frac{5}{7}$ kg of oranges. He use $\frac{2}{3}$ kg as juice.

What is the remainder of oranges?

....

....

2) Find the value of **a** in the simplest form:

$a + 5\frac{5}{6} = 8\frac{1}{12}$

....

....

3) Marawan studied Math for 90 minutes and science for 60 minutes

How many minutes did Marawan study all?

....

....

4) Seif studied Math for $1\frac{1}{2}$ hour and Science for 30 minutes.

How many hours seif study in all?

....

....

5) Karim walked $2\frac{1}{5}$ km and Sameh walked $1\frac{1}{3}$ km more.

What distance that Sameh walked?

....

....

1. Choose:

1) d	6) c	11) d	16) b	21) b
2) a	7) b	12) c	17) d	22) c
3) b	8) b	13) a	18) a	23) d
4) a	9) c	14) c	19) c	24) c
5) c	10) b	15) a	20) c	25) a

2. Complete:

1) 25	7) $\frac{1}{5}$	13) 5	19) $3\frac{5}{12}$	25) 90
2) 6	8) $\frac{3}{8}$	14) $4\frac{2}{5}$	20) $1\frac{7}{8}$	26) 6
3) $\frac{3}{4}$	9) $\frac{1}{6}$	15) $2\frac{2}{3}$	21) $4\frac{2}{5}$	27) 4 , 45
4) 12	10) $\frac{5}{7}$	16) $4\frac{3}{7}$	22) $\frac{8}{9}$	28) 6 , 6
5) $1\frac{1}{10}$	11) $\frac{2}{7}$	17) 6	23) $13\frac{1}{6}$	29) 135
6) $\frac{7}{8}$	12) $1\frac{5}{8}$	18) $5\frac{11}{24}$	24) $5\frac{3}{4}$	30) $1\frac{1}{3}$

3. Essay:

1) The remainder = $\frac{5}{7} - \frac{2}{3} = \frac{15}{21} - \frac{14}{21} = \frac{1}{21}$ kg

2) a = $8\frac{1}{12} - 5\frac{5}{6} = 8\frac{1}{12} - 5\frac{10}{12}$

$= 7\frac{13}{12} - 5\frac{10}{12} = 2\frac{3}{12} = 2\frac{1}{4}$

3) The minutes = 90 + 60 = 150 minutes

4) The hours = $1\frac{1}{2} + \frac{1}{2}$ = 2 hours

5) The distance = $2\frac{1}{5} + 1\frac{1}{3} = 2\frac{3}{15} + 1\frac{5}{15} = 3\frac{8}{15}$ km

Choose the correct answer.

1) $3\frac{2}{4} - 1\frac{3}{4} =$ ....

A. $2\frac{1}{4}$ B. $1\frac{3}{4}$ C. $1\frac{1}{4}$ D. $2\frac{3}{4}$

2) To find the value of A in equation: $A - 3\frac{2}{9} = 1\frac{1}{9}$ we use ....

A. Multiplication B. Subtraction C. Addition D. Division

3) The two fractions with like denominator and equivalent to $\frac{3}{4}$, $\frac{2}{3}$ are ....

A. $\frac{6}{12}$, $\frac{8}{12}$ B. $\frac{16}{12}$, $\frac{18}{12}$ C. $\frac{6}{8}$, $\frac{4}{6}$ D. $\frac{9}{12}$, $\frac{8}{12}$

4) $5\frac{1}{3} + 2\frac{2}{3} =$ ......

A. $8\frac{1}{3}$ B. $3\frac{1}{3}$ C. $7\frac{1}{3}$ D. 8

5) The equivalent fraction to $\frac{3}{7}$ is ......

A. $\frac{9}{21}$ B. $\frac{3}{21}$ C. $\frac{17}{21}$ D. $\frac{8}{21}$

6) $9 - M = 5\frac{3}{10}$, then the value of M = ...

A. $4\frac{3}{10}$ B. $3\frac{3}{10}$ C. $3\frac{7}{10}$ D. $14\frac{3}{10}$

7) $2\frac{1}{7} + 4\frac{5}{7} =$ ....

A. $6\frac{6}{7}$ B. $5\frac{4}{7}$ C. $6\frac{6}{14}$ D. $5\frac{4}{14}$

8) Smallest like denominator for $\frac{1}{6}$, $\frac{4}{5}$ is ....

A. 30 B. 6 C. 5 D. 12

9) L.C.M for the denominators of two fractions $\frac{1}{3}$, $\frac{5}{9}$ is ....

A. 3 B. 6 C. 9 D. 29

Choose the correct answer.

10) $1+\frac{5}{8}+\frac{2}{3}=$ ....

A. $24\frac{2}{7}$ B. $7\frac{2}{24}$ C. $2\frac{7}{24}$ D. $1\frac{7}{24}$

11) To find the value of X in equation: $X-5\frac{2}{9}=10\frac{1}{9}$ we use ....

A. Multiplication B. Subtraction C. Addition D. Division

12) $7\frac{1}{2}-5\frac{5}{6}=$ ......

A. $1\frac{3}{2}$ B. $2\frac{1}{3}$ C. $1\frac{2}{3}$ D. $2\frac{2}{3}$

13) $11-M=7\frac{3}{10}$, then the value of M = ...

A. $4\frac{3}{10}$ B. $3\frac{3}{10}$ C. $3\frac{7}{10}$ D. $14\frac{3}{10}$

14) $1-\frac{1}{4}-\frac{1}{6}=$ ....

A. $\frac{7}{12}$ B. $\frac{1}{12}$ C. $\frac{5}{6}$ D. $\frac{5}{12}$

15) The mixed number $4\frac{1}{3}$ can be regrouped as ....

A. $\frac{13}{4}$ B. $3\frac{1}{4}$ C. $3\frac{4}{3}$ D. $4+\frac{1}{3}$

16) If $\frac{5}{8}=\frac{X}{40}$, then x = ...

A. 37 B. 25 C. 40 D. 5 x 8

17) $\frac{5}{12}+\frac{1}{4}$ ◯ $\frac{1}{3}+\frac{1}{4}$

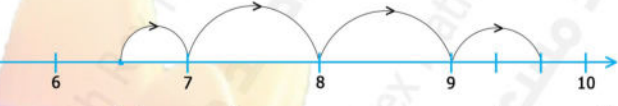
A. < B. > C. =

18) [circle with 4 of 6 parts shaded] - [circle with 1 of 3 parts shaded] = ...

A. $\frac{2}{6}$ B. $\frac{1}{2}$ C. $\frac{5}{6}$ D. $\frac{1}{3}$

Choose the correct answer.

(19) The opposit number line represents ....



A. $9\frac{2}{3}-6\frac{1}{2}$ B. $9\frac{2}{3}+6\frac{1}{2}$ C. $2\frac{5}{6}+6\frac{1}{2}$ D. $6\frac{1}{2}-2\frac{5}{6}$

(20) The fraction $\frac{10}{15}$ is equivalent to ....

A. $\frac{4}{6}$ B. $\frac{2}{5}$ C. $1\frac{1}{2}$ D. $\frac{20}{33}$

(21) $5\frac{2}{4}-3\frac{3}{4}$ =......

A. $2\frac{1}{4}$ B. $1\frac{3}{4}$ C. $1\frac{1}{4}$ D. $2\frac{3}{4}$

(22) $11 - M = 7\frac{3}{10}$, then the value of M =........

A. $4\frac{3}{10}$ B. $3\frac{3}{10}$ C. $3\frac{7}{10}$ D. $14\frac{3}{10}$

(23) $1-\frac{1}{4}-\frac{1}{6}$ =........

A. $\frac{7}{12}$ B. $\frac{1}{12}$ C. $\frac{5}{6}$ D. $\frac{5}{12}$

(24) The fraction $2\frac{1}{7}$ by regrouping is ....

A. $1\frac{8}{7}$ B. $2\frac{8}{7}$ C. $1\frac{1}{14}$ D. $1\frac{7}{8}$

(25) If $5\frac{1}{4}+2\frac{3}{4}=x-\frac{1}{3}$, then x =..........

A. $8\frac{1}{3}$ B. 8   C. $7\frac{3}{4}$ D. $7\frac{2}{3}$

(26) $\frac{3}{7}+\frac{4}{7}$= ....

A. $\frac{7}{14}$ B. $\frac{4}{4}$ C. $\frac{21}{28}$ D. $\frac{12}{33}$

(27) $\frac{5}{8}+\frac{1}{2}$=1+ ....

A. $\frac{1}{2}$ B. $\frac{1}{8}$ C. $\frac{1}{5}$ D. $\frac{3}{4}$

Choose the correct answer.

28) Which of the following is not eguivalent to $\frac{6}{8}$?

A. $\frac{3}{4}$ B. $\frac{60}{80}$ C. $\frac{12}{18}$ D. $\frac{30}{40}$

29) $1\frac{1}{2}$ days =........hours

A. $\frac{2}{3}$ B. 24 C. 36 D. $\frac{3}{2}$

30) The simplest from of $\frac{24}{36}$ is ....

A. $\frac{12}{18}$ B. $\frac{6}{9}$ C. $\frac{8}{12}$ D. $\frac{2}{3}$

31) If $5\frac{1}{4} - 4\frac{a}{4} = \frac{3}{4}$, then a =..........

A. 1 B. 2 C. 3 D. 4

32) Which of the following is correct ?

$\frac{3}{4} = \frac{4}{3}$ $\frac{5}{8} = \frac{15}{18}$ $\frac{1}{2} = \frac{6}{12}$ $\frac{3}{5} = \frac{5}{7}$

33) $\frac{19}{5}$ is equivalent to ....

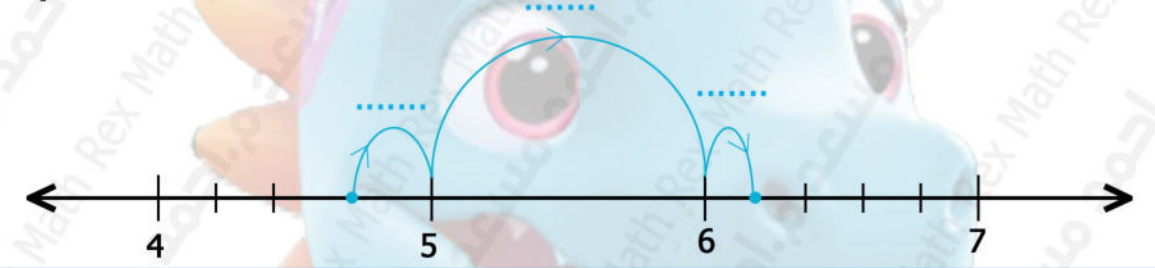
A. $3\frac{3}{5}$ B. $4\frac{1}{5}$ C. $3\frac{5}{5}$ D. $3\frac{4}{5}$

Complete the following.

1) $\frac{24}{5}$ = ... As mixed number

2) L.C.M for the denominators of two fractions $5\frac{10}{15}, 7\frac{5}{10}$ is ....

3) $6\frac{1}{5} - 4\frac{3}{4}$ = ...



4) $\frac{1}{2}$ Year =...... Months

5) 30 Months =...... Years

6) 150 Seconds =...... Minutes

7) 80 Minutes =...... Hours

8) Smallest like denominator for $\frac{5}{6}, \frac{14}{18}$ is ....

9) In the equation: $D + 4\frac{1}{9} = 5\frac{14}{18}$ then the value of D =........

10) If $\frac{5}{7} = \frac{a}{35}$, then the value of a =........

11) $\frac{6}{7} + \frac{1}{42}$ = ...

12) $\frac{5}{8} + \frac{1}{6}$ = ...

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13. $\frac{2}{6}+\frac{1}{6}+\frac{4}{6}+\frac{5}{6}=$ ....

14. $2\frac{1}{3}$ hours= .... hours and .... minutes

15. $7\frac{1}{10}$ minutes= .... minutes and .... seconds

16. 2 hours and 15 minutes = ... minutes

17. $1-\frac{2}{9}=$ ....

18. If $2\frac{1}{7}=\frac{x}{7}$, then x = ...

19. If $\frac{1}{3}$ - a = $\frac{1}{6}$, then a = ...

20. $3\frac{1}{2}+2\frac{1}{3}=$ ....

21. 40 minutes =...... hour

Answer the following questions

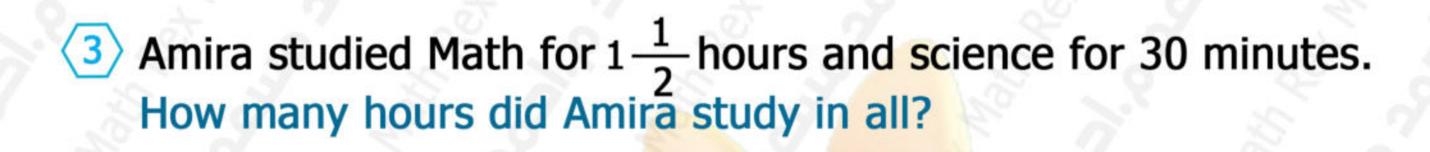
1. Use the number line to find the difference. ($4\frac{1}{3}-1\frac{1}{2}$)

....

2. Gina Walked $1\frac{1}{2}$ km and Amany walked $2\frac{2}{5}$ km more than Gina. How many km did Amany walk?

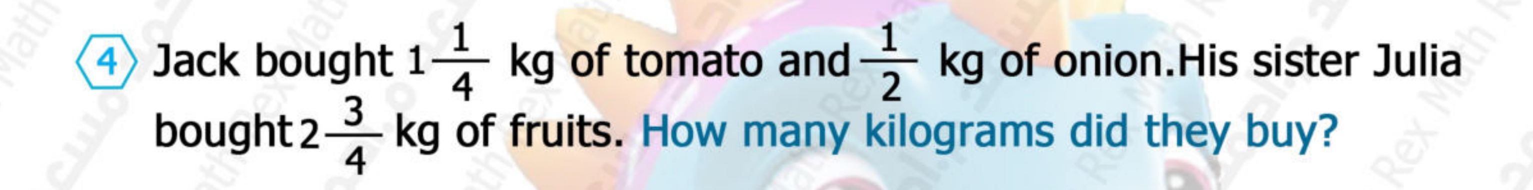
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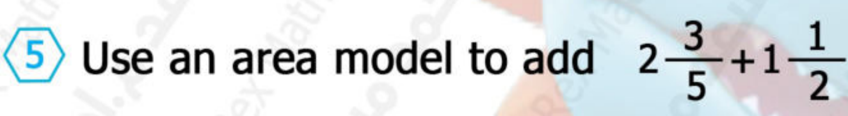
3. Amira studied Math for $1\frac{1}{2}$ hours and science for 30 minutes. How many hours did Amira study in all?

....

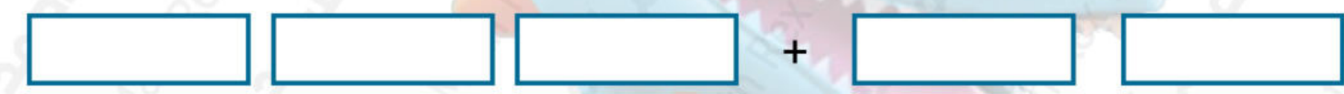


4. Jack bought $1\frac{1}{4}$ kg of tomato and $\frac{1}{2}$ kg of onion.His sister Julia bought $2\frac{3}{4}$ kg of fruits. How many kilograms did they buy?

....



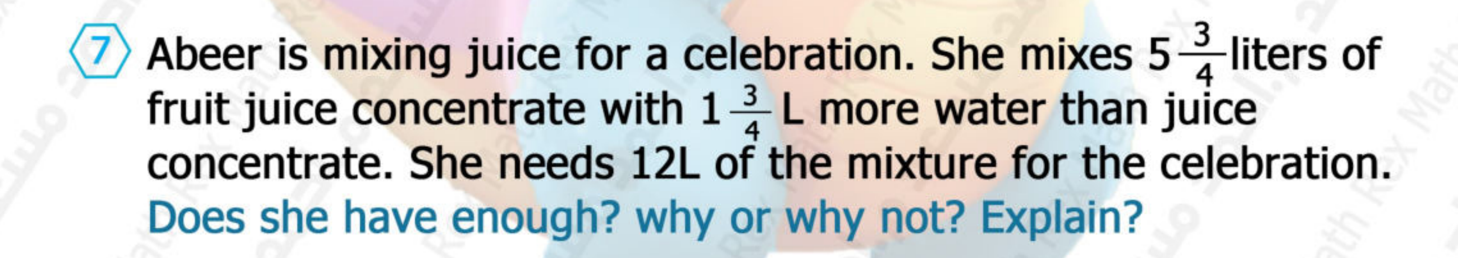
5. Use an area model to add $2\frac{3}{5} + 1\frac{1}{2}$



			+		

6. Ahmed collected $6\frac{2}{5}$ kg of honey.He gave his sister $3\frac{1}{3}$ kg of them. How many kilograms are left?

....



7. Abeer is mixing juice for a celebration. She mixes $5\frac{3}{4}$ liters of fruit juice concentrate with $1\frac{3}{4}$ L more water than juice concentrate. She needs 12L of the mixture for the celebration. Does she have enough? why or why not? Explain?

....

8. $1 - \frac{7}{9} - \frac{1}{6} =$ ....

Choose the correct answer.

1) $3\frac{2}{4} - 1\frac{3}{4} =$ ....

A. $2\frac{1}{4}$ B. $1\frac{3}{4}$ C. $1\frac{1}{4}$ D. $2\frac{3}{4}$

2) To find the value of A in equation: $A - 3\frac{2}{9} = 1\frac{1}{9}$ we use ....

A. Multiplication B. Subtraction C. Addition D. Division

3) The two fractions with like denominator and equivalent to $\frac{3}{4}$, $\frac{2}{3}$ are ....

A. $\frac{6}{12}$, $\frac{8}{12}$ B. $\frac{16}{12}$, $\frac{18}{12}$ C. $\frac{6}{8}$, $\frac{4}{6}$ D. $\frac{9}{12}$, $\frac{8}{12}$

4) $5\frac{1}{3} + 2\frac{2}{3} =$ ......

A. $8\frac{1}{3}$ B. $3\frac{1}{3}$ C. $7\frac{1}{3}$ D. 8

5) The equivalent fraction to $\frac{3}{7}$ is ......

A. $\frac{9}{21}$ B. $\frac{3}{21}$ C. $\frac{17}{21}$ D. $\frac{8}{21}$

6) $9 - M = 5\frac{3}{10}$, then the value of M = ...

A. $4\frac{3}{10}$ B. $3\frac{3}{10}$ C. $3\frac{7}{10}$ D. $14\frac{3}{10}$

7) $2\frac{1}{7} + 4\frac{5}{7} =$ ....

A. $6\frac{6}{7}$ B. $5\frac{4}{7}$ C. $6\frac{6}{14}$ D. $5\frac{4}{14}$

8) Smallest like denominator for $\frac{1}{6}$, $\frac{4}{5}$ is ....

A. 30 B. 6 C. 5 D. 12

9) L.C.M for the denominators of two fractions $\frac{1}{3}$, $\frac{5}{9}$ is ....

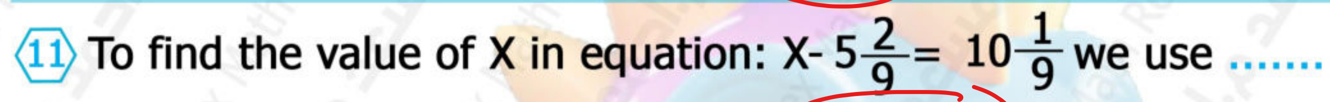
A. 3 B. 6 C. 9 D. 29

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Choose the correct answer.

10) $1+\frac{5}{8}+\frac{2}{3}=$ ....

A. $24\frac{2}{7}$ B. $7\frac{2}{24}$ C. $2\frac{7}{24}$ D. $1\frac{7}{24}$



11) To find the value of X in equation: $X-5\frac{2}{9}=10\frac{1}{9}$ we use ....

A. Multiplication B. Subtraction C. Addition D. Division



12) $7\frac{1}{2}-5\frac{5}{6}=$......

A. $1\frac{3}{2}$ B. $2\frac{1}{3}$ C. $1\frac{2}{3}$ D. $2\frac{2}{3}$

13) $11-M=7\frac{3}{10}$, then the value of M =........

A. $4\frac{3}{10}$ B. $3\frac{3}{10}$ C. $3\frac{7}{10}$ D. $14\frac{3}{10}$

14) $1-\frac{1}{4}-\frac{1}{6}=$........

A. $\frac{7}{12}$ B. $\frac{1}{12}$ C. $\frac{5}{6}$ D. $\frac{5}{12}$

15) The mixed number $4\frac{1}{3}$ can be regrouped as ....

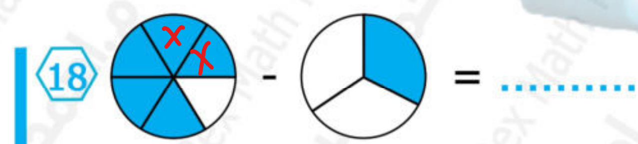
A. $\frac{13}{4}$ B. $3\frac{1}{4}$ C. $3\frac{4}{3}$ D. $4+\frac{1}{3}$

16) If $\frac{5}{8}=\frac{X}{40}$, then x =..........

A. 37 B. 25 C. 40 D. 5 x 8

17) $\frac{5}{12}+\frac{1}{4}$ ◯ $\frac{1}{3}+\frac{1}{4}$

A. < B. > C. =

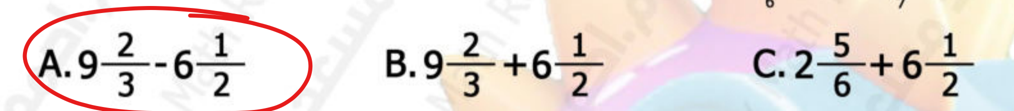
18)  = ...

A. $\frac{2}{6}$ B. $\frac{1}{2}$ C. $\frac{5}{6}$ D. $\frac{1}{3}$

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Choose the correct answer.

19 The opposit number line represents ....



A. $9\frac{2}{3} - 6\frac{1}{2}$ B. $9\frac{2}{3} + 6\frac{1}{2}$ C. $2\frac{5}{6} + 6\frac{1}{2}$ D. $6\frac{1}{2} - 2\frac{5}{6}$

20 The fraction $\frac{10}{15}$ is equivalent to ....

A. $\frac{4}{6}$ B. $\frac{2}{5}$ C. $1\frac{1}{2}$ D. $\frac{20}{33}$

21 $5\frac{2}{4} - 3\frac{3}{4}$ =......

A. $2\frac{1}{4}$ B. $1\frac{3}{4}$ C. $1\frac{1}{4}$ D. $2\frac{3}{4}$

22 11 - M = $7\frac{3}{10}$, then the value of M =........

A. $4\frac{3}{10}$ B. $3\frac{3}{10}$ C. $3\frac{7}{10}$ D. $14\frac{3}{10}$

23 $1 - \frac{1}{4} - \frac{1}{6}$ =........

A. $\frac{7}{12}$ B. $\frac{1}{12}$ C. $\frac{5}{6}$ D. $\frac{5}{12}$

24 The fraction $2\frac{1}{7}$ by regrouping is ....

A. $1\frac{8}{7}$ B. $2\frac{8}{7}$ C. $1\frac{1}{14}$ D. $1\frac{7}{8}$

25 If $5\frac{1}{4} + 2\frac{3}{4} = x - \frac{1}{3}$, then x =..........

A. $8\frac{1}{3}$ B. 8 C. $7\frac{3}{4}$ D. $7\frac{2}{3}$

26 $\frac{3}{7} + \frac{4}{7}$ = ...

A. $\frac{7}{14}$ B. $\frac{4}{4}$ C. $\frac{21}{28}$ D. $\frac{12}{33}$

27 $\frac{5}{8} + \frac{1}{2}$ = 1+ ....

A. $\frac{1}{2}$ B. $\frac{1}{8}$ C. $\frac{1}{5}$ D. $\frac{3}{4}$

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Choose the correct answer.

28. Which of the following is not eguivalent to $\frac{6}{8}$?

A. $\frac{3}{4}$ B. $\frac{60}{80}$ C. $\frac{12}{18}$ D. $\frac{30}{40}$

29. $1\frac{1}{2}$ days =........hours

A. $\frac{2}{3}$ B. 24 C. 36 D. $\frac{3}{2}$

30. The simplest from of $\frac{24}{36}$ is ....

A. $\frac{12}{18}$ B. $\frac{6}{9}$ C. $\frac{8}{12}$ D. $\frac{2}{3}$

31. If $5\frac{1}{4} - 4\frac{a}{4} = \frac{3}{4}$, then a =.........

A. 1 B. 2 C. 3 D. 4

32. Which of the following is correct ?

$\frac{3}{4} = \frac{4}{3}$ $\frac{5}{8} = \frac{15}{18}$ $\frac{1}{2} = \frac{6}{12}$ $\frac{3}{5} = \frac{5}{7}$

33. $\frac{19}{5}$ is equivalent to ....

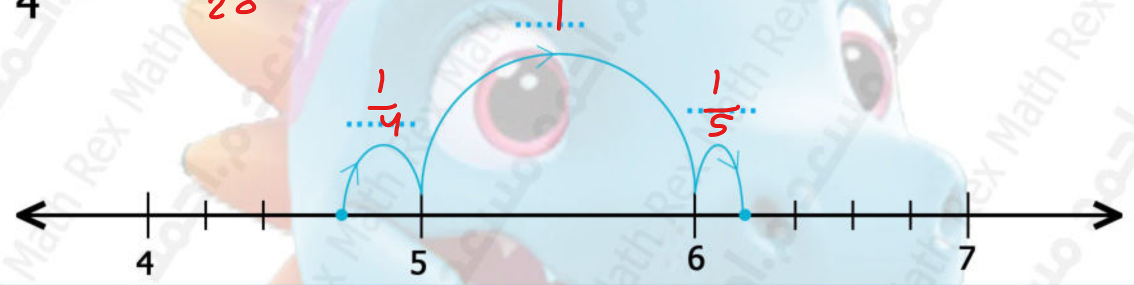
A. $3\frac{3}{5}$ B. $4\frac{1}{5}$ C. $3\frac{5}{5}$ D. $3\frac{4}{5}$

Complete the following.

1. $\frac{24}{5}$ = ..4 $\frac{4}{5}$.. As mixed number

2. L.C.M for the denominators of two fractions $5\frac{10}{15}, 7\frac{5}{10}$ is ..30..

3. $6\frac{1}{5} - 4\frac{3}{4}$ = ..1 $\frac{9}{20}$..



4. $\frac{1}{2}$ Year = ..6.. Months

5. 30 Months = 2 $\frac{1}{2}$ Years

6. 150 Seconds = 2 $\frac{1}{2}$ Minutes

7. 80 Minutes = 1 $\frac{1}{3}$ Hours

8. Smallest like denominator for $\frac{5}{6}, \frac{14}{18}$ is ..18..

9. In the equation: $D + 4\frac{1}{9} = 5\frac{14}{18}$ then the value of D = ..1 $\frac{2}{3}$..

10. If $\frac{5}{7} = \frac{a}{35}$, then the value of a = ..25..

11. $\frac{6}{7} + \frac{1}{42}$ = $\frac{37}{42}$

12. $\frac{5}{8} + \frac{1}{6}$ = $\frac{19}{24}$

13. $\frac{2}{6}+\frac{1}{6}+\frac{4}{6}+\frac{5}{6}=$ $\frac{12}{6}=2$

14. $2\frac{1}{3}$ hours= ...2... hours and ..20.. minutes

15. $7\frac{1}{10}$ minutes= ...7... minutes and ...6... seconds

16. 2 hours and 15 minutes = ..135.. minutes

17. $1-\frac{2}{9}=$ $\frac{7}{9}$

18. If $2\frac{1}{7}=\frac{x}{7}$, then x = ..15....

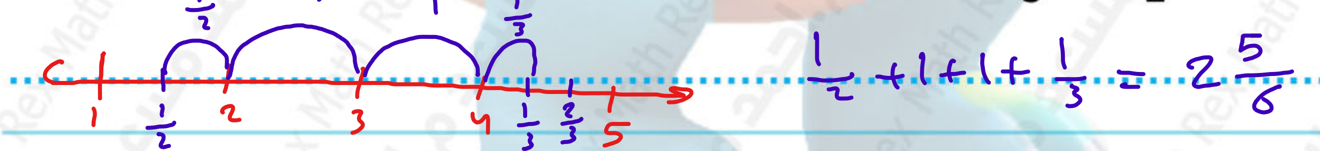
19. If $\frac{1}{3}-a=\frac{1}{6}$, then a = ...$\frac{1}{6}$

20. $3\frac{1}{2}+2\frac{1}{3}=$ $5\frac{5}{6}$

21. 40 minutes =..$\frac{2}{3}$.. hour

Answer the following questions

1. Use the number line to find the difference. $(4\frac{1}{3}-1\frac{1}{2})$



$\frac{1}{2}+1+1+\frac{1}{3}=2\frac{5}{6}$

2. Gina Walked $1\frac{1}{2}$ km and Amany walked $2\frac{2}{5}$ km more than Gina. How many km did Amany walk?

$2\frac{2}{5}+1\frac{1}{2}=3\frac{9}{10}$ Km

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30 min = $\frac{1}{2}$ hour

3. Amira studied Math for $1\frac{1}{2}$ hours and science for 30 minutes.
How many hours did Amira study in all?

$1\frac{1}{2} + \frac{1}{2} = 2$ hours

4. Jack bought $1\frac{1}{4}$ kg of tomato and $\frac{1}{2}$ kg of onion. His sister Julia bought $2\frac{3}{4}$ kg of fruits. How many kilograms did they buy?

$1\frac{1}{4} + \frac{1}{2} + 2\frac{3}{4} = 4\frac{1}{2}$ kg

5. Use an area model to add $2\frac{3}{5} + 1\frac{1}{2} = 4\frac{1}{10}$

+



6. Ahmed collected $6\frac{2}{5}$ kg of honey. He gave his sister $3\frac{1}{3}$ kg of them.
How many kilograms are left?

$6\frac{2}{5} - 3\frac{1}{3} = 6\frac{6}{15} - 3\frac{5}{15} = 3\frac{1}{15}$ kg

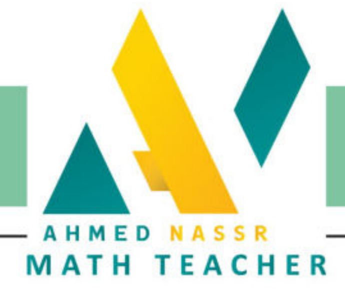
7. Abeer is mixing juice for a celebration. She mixes $5\frac{3}{4}$ liters of fruit juice concentrate with $1\frac{3}{4}$ L more water than juice concentrate. She needs 12L of the mixture for the celebration.
Does she have enough? why or why not? Explain?

water = $5\frac{3}{4} + 1\frac{3}{4} = 7\frac{1}{2}$ L

All mixture = $5\frac{3}{4} + 7\frac{1}{2}$
$= 13\frac{1}{4}$ L

Yes she have enough capacity

8. $1 - \frac{7}{9} - \frac{1}{6} = \frac{18}{18} - \frac{14}{18} - \frac{3}{18}$
$= \frac{1}{18}$



Q1: Choose the correct answer:

1. $\frac{7}{5}$ is called a/an ....

   (a) proper fraction (b) mixed number (c) whole number (d) improper fraction

2. The smallest like denominator for the fractions $\frac{3}{4}$ and $\frac{2}{3}$ is ....

   (a) 4 (b) 3 (c) 12 (d) 24

3. $\frac{35}{56}$ = ...

   (a) $\frac{8}{5}$ (b) $\frac{7}{5}$ (c) $\frac{7}{8}$ (d) $\frac{5}{8}$

4. $\frac{6}{7} + \frac{9}{14}$ = 1 + ...

   (a) $\frac{21}{14}$ (b) $\frac{9}{7}$ (c) $\frac{1}{2}$ (d) 7

5. $\frac{16}{48} = \frac{....}{3}$

   (a) 1 (b) 2 (c) 3 (d) 4

6. $\frac{1}{5}$ + ... = $\frac{1}{2}$

   (a) $\frac{1}{3}$ (b) $\frac{2}{7}$ (c) $\frac{3}{10}$ (d) $\frac{1}{5}$

7. $\frac{1}{2} + \frac{6}{8}$ + 5 = ...

   (a) $5\frac{7}{8}$ (b) $6\frac{1}{8}$ (c) $5\frac{1}{4}$ (d) $6\frac{1}{4}$

8. $\frac{6}{9}$ − .... = $\frac{1}{3}$

   (a) $\frac{1}{3}$ (b) $\frac{1}{9}$ (c) $\frac{5}{9}$ (d) $\frac{2}{3}$

9. $1 - \frac{1}{3} - \frac{2}{3}$ = ...

   (a) $\frac{1}{3}$ (b) $\frac{2}{3}$ (c) zero (d) 1







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10 $1 - \text{............} = \frac{3}{8}$

(a) $\frac{2}{8}$ (b) $\frac{3}{8}$ (c) $\frac{1}{2}$ (d) $\frac{5}{8}$

11 $\frac{2}{5} + \frac{2}{10} = \text{............}$

(a) $\frac{3}{5}$ (b) $\frac{7}{10}$ (c) $\frac{5}{10}$ (d) $\frac{1}{2}$

12 $\frac{5}{7} + k = 1\frac{2}{7}$, then k = ...

(a) $\frac{3}{7}$ (b) $\frac{4}{7}$ (c) $1\frac{4}{7}$ (d) $\frac{2}{7}$

Q2: Complete the following:

1 The smallest like denominator for the fractions $\frac{2}{5}$ and $\frac{7}{10}$ is ....

2 The two like denominator fractions of $\frac{3}{8}$ and $\frac{2}{3}$ using LCM are ....

3 The sum of $(\frac{5}{21} , \frac{4}{7})$ is ....

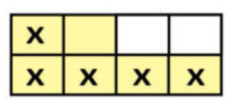
4 If $k - \frac{2}{3} = \frac{3}{7}$, then k = ...

5 $2 - \frac{2}{3} - \frac{1}{4} = \text{..........}$

6 $1 + \frac{1}{5} + \frac{3}{4} = \text{.........}$

7 If $\frac{4}{7} + \frac{1}{3} = \frac{x}{21} + \frac{7}{21}$, then the value of k = ...

8 The subtraction operation represented by the opposite model is ....



9 The addition operation represented by the opposite models is: .... + ... = ...

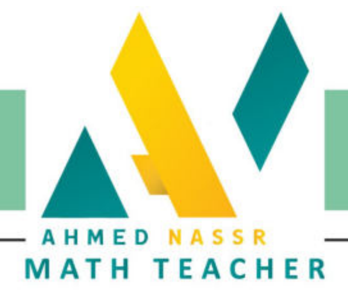


10 $\text{.......} - \frac{5}{8} = \frac{1}{4}$

11 $\frac{1}{4}$ of 24 = ...

12 $\frac{5}{8} = \frac{....}{....} = \frac{....}{....} = \frac{....}{....}$

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Q3: Answer the following:

1 Sameh bought $\frac{4}{7}$ kilogram of flour and $\frac{1}{3}$ kilogram of sugar.
What is the total mass of what Sameh bought?

....

2 Rehab needs two bottles of oil. If she has a bottle $\frac{3}{5}$ full
How much oil will she need to have a full two bottles?

....

3 Write the following fraction with like denominators:

A] $\frac{2}{5}, \frac{3}{4}$ B] $\frac{1}{6}, \frac{5}{12}$ C] $\frac{5}{18}, \frac{1}{12}$

4 Marwa spends $\frac{2}{3}$ hour doing her Arabic homework, $\frac{3}{5}$ hour doing the math homework, and 3 hour doing the English homework.
Calculate the time she spends doing her homework.

....

5 Find the result in the simplest form:

A] $\frac{3}{4} + \frac{5}{6}$ B] $\frac{1}{2} - \frac{1}{6}$ C] $\frac{5}{9} - \frac{1}{2}$

6 Murad bought 4 kg of oranges, he used $\frac{5}{7}$ kg of them to make juice .
Calculate how many kilograms of orange are left?

....

7 $\frac{1}{3}$ of the flowers in the school garden are white, $\frac{1}{4}$ are pink and the rest are blue.
What fraction represents the blue flowers?

....

اللهم اجعل هذا العمل خالصا لوجهك الكريم واكتب له القبول
والنفع يا كريم يا وهّاب.

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Q1: Choose the correct answer:

1 $5 - 2\frac{2}{5} = ...$

ⓐ $2\frac{3}{5}$ ⓑ $3\frac{3}{5}$ ⓒ $2\frac{2}{5}$ ⓓ $3\frac{2}{5}$

2 The mixed numbers $2\frac{2}{6}$ and $3\frac{6}{8}$ by using a like denominator are .... and ....

ⓐ $2\frac{8}{24}, 3\frac{18}{24}$ ⓑ $2\frac{5}{8}, 3\frac{6}{8}$ ⓒ $2\frac{2}{6}, 3\frac{2}{6}$ ⓓ $2\frac{4}{12}, 3\frac{9}{12}$

3 If $4\frac{3}{5} + m = 6\frac{2}{5}$, then the value of m = ...

ⓐ $1\frac{4}{5}$ ⓑ $2\frac{1}{5}$ ⓒ 11 ⓓ $1\frac{3}{5}$

4 The fraction $3\frac{3}{4}$ by regrouping is ....

ⓐ $\frac{14}{4}$ ⓑ $2\frac{6}{4}$ ⓒ $1\frac{11}{4}$ ⓓ $2\frac{5}{4}$

5 $\frac{15}{6} = ...$

ⓐ $3\frac{2}{6}$ ⓑ $2\frac{1}{4}$ ⓒ $2\frac{1}{2}$ ⓓ $1\frac{1}{2}$

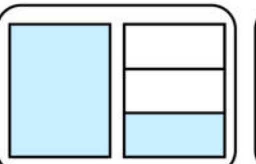
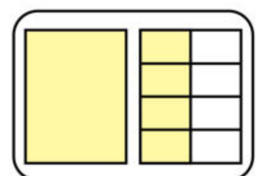
6 $3\frac{1}{4} + m = 5\frac{1}{2}$, then the value of m = ...

ⓐ $1\frac{1}{2}$ ⓑ $2\frac{1}{2}$ ⓒ $1\frac{1}{4}$ ⓓ $2\frac{1}{4}$

7 The addition problem that represents the following model is ....

ⓐ $1\frac{1}{3} + 1\frac{2}{3}$ ⓑ $1\frac{1}{3} + 1\frac{1}{2}$

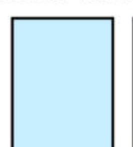
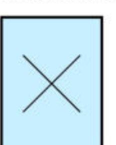
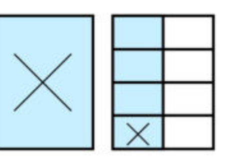
ⓒ $1\frac{2}{3} + 1\frac{1}{2}$ ⓓ $1\frac{2}{3} + 1\frac{3}{6}$

8 The subtraction problem that represents the following model is ....

ⓐ $2\frac{1}{8} - 1\frac{1}{2}$ ⓑ $3\frac{1}{2} - 2\frac{1}{8}$

ⓒ $3\frac{4}{8} - 1\frac{1}{8}$ ⓓ $3\frac{1}{8} - 2\frac{3}{8}$

9 $3\frac{1}{2} - .... = 1\frac{3}{8}$

ⓐ $2\frac{5}{8}$ ⓑ $1\frac{1}{8}$ ⓒ $1\frac{5}{8}$ ⓓ $2\frac{1}{8}$

10 2 hours and a half = ... minutes.

ⓐ 150 ⓑ 140 ⓒ 135 ⓓ 120

11 $4\frac{8}{9} + \frac{1}{3}$ = ... + $\frac{2}{9}$

ⓐ $5\frac{2}{3}$ ⓑ 5 ⓒ 4 ⓓ 3

12 130 minutes = ... hours.

ⓐ $2\frac{1}{6}$ ⓑ $2\frac{1}{2}$ ⓒ $2\frac{1}{4}$ ⓓ $2\frac{1}{3}$

13 $3\frac{3}{4}$ hour = ... minutes.

ⓐ 250 ⓑ 225 ⓒ 195 ⓓ 230

14 $1\frac{1}{3}$ year = ... months.

ⓐ 16 ⓑ 15 ⓒ 18 ⓓ 14

Q2: Complete the following:

1 $4\frac{2}{5} = 3\frac{....}{....}$

2 $1\frac{2}{5}$ + ... = 3

3 $4\frac{1}{3} - 2\frac{2}{3}$ = ...

4 $3\frac{12}{11} = 4\frac{....}{....}$

5 $g - 3\frac{2}{5} = 2\frac{3}{5}$, then g = ...

6 3 years + 3 months = ... years.

7 30 months = ... years.

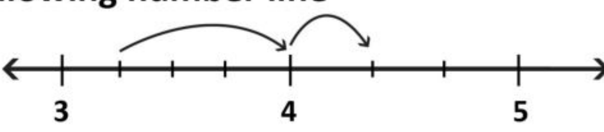
8 The two like denominator fractions of $7\frac{5}{7}$ and $1\frac{5}{14}$ using LCM are ....

9 5 minutes + 40 seconds = ... minutes.

10 $5\frac{2}{5}$ − .... = $1\frac{1}{3}$

11 .... + $2\frac{5}{7} = 4\frac{3}{14}$

12 The subtraction problem that represents the following number line is ....



13 $5\frac{2}{5}$ = ... minutes , ... seconds

14 A fraction whose numerator is greater than its denominator is called a/an ....

15 15 minutes = ... hours.

16 48 minutes = ... hour

Q3: Answer the following:

1 Wael collected $4\frac{1}{4}$ kg of dates, he gave $2\frac{3}{5}$ kg to his friend.
How many kilograms are left with Wael? ....

2 Mariam spent $3\frac{1}{2}$ hours studying. The next day, she spent $1\frac{1}{2}$ fewer hours than the previous day. How many hours did Mariam spend studying on both days?

....

3 A tank of water contains $4\frac{4}{5}$ liter of water. Sara used $1\frac{1}{4}$ liters and Murad drank $\frac{3}{4}$ liter, How much of water is left in the tank?

....

4 Use an area model to add: $1\frac{1}{3} + 3\frac{1}{4}$ = ...



5 Hana had $15\frac{1}{2}$ pounds, she bought a ruler for $4\frac{1}{4}$ pounds and a pen for $5\frac{1}{2}$ pounds. What is the remaining amount with Hana?

....

6 Find the missing number using any strategy. Simplify, if possible:

A] $15\frac{1}{4} - c = 8$

B] $4\frac{2}{5} + k = 9\frac{3}{4}$

7 Malek spends $2\frac{1}{4}$ hours studying Arabic and 30 minutes more time studying mathematics. How much time does Malek spend studying mathematics and Arabic?

....

8 A $4\frac{1}{4}$ km long road was paved in three stages. $1\frac{7}{10}$ km were paved in the first stage, $1\frac{3}{5}$ km in the second stage and the rest in the third stage.
How long is the paved road in the third stage?

....





Model (1)

Question 1 : Choose the correct answer :

1. The smallest like denominator of $\frac{3}{5}$ and $\frac{2}{15}$ is ....
   (a) 5 (b) 15 (c) 75 (d) 3
2. $\frac{1}{3} + \frac{2}{5} =$ ....
   (a) $\frac{3}{5}$ (b) $\frac{3}{8}$ (c) $\frac{11}{15}$ (d) $\frac{4}{15}$
3. Equivalent fraction of $\frac{6}{24}$ is ....
   (a) $\frac{6}{12}$ (b) $\frac{24}{6}$ (c) $\frac{1}{6}$ (d) $\frac{1}{4}$
4. $3\frac{1}{2}$ years = ...months
   (a) 42 (b) 36 (c) 9 (d) 40
5. $2\frac{2}{3} + m = 5\frac{1}{3}$,then the value of m is ....
   (a) $3\frac{1}{3}$ (b) $2\frac{2}{3}$ (c) $3\frac{3}{3}$ (d) 3

Question 2 : Complete the following :

1. $3\frac{1}{5}$ hours = ...minutes
2. $\frac{7}{15} - \frac{2}{15} - \frac{3}{15} =$ ....
3. 1 - .... = $\frac{4}{5}$
4. .... $-3\frac{2}{3} = 1\frac{1}{6}$
5. 22 days = ...weeks

Question 3 : Answer the following :

1. Amira bought $2\frac{5}{12}$ kilograms of oranges . she used $\frac{3}{4}$ kilogram to make a juice . How much kilograms with her now ?

....

2. Amira studied Arabic for 75 minutes and Math for $4\frac{1}{4}$ hours . How many hours did Amira study in all ?

....





Model (2)

Question 1 : Choose the correct answer :

1. $\frac{3}{15}$ .... $\frac{1}{5}$
   (a) > (b) < (c) = (d) ≥

2. $\frac{5}{7} + \frac{1}{7} + \frac{6}{7} + \frac{2}{7} =$ ....
   (a) $2\frac{5}{7}$ (b) 2 (c) 3 (d) $\frac{15}{7}$

3. The simplest form of $\frac{12}{18}$ is ....
   (a) $\frac{12}{18}$ (b) $\frac{1}{18}$ (c) $\frac{2}{3}$ (d) $\frac{6}{9}$

4. The fraction $3\frac{1}{4}$ by regrouping is ....
   (a) $3\frac{4}{4}$ (b) $4\frac{5}{4}$ (c) $2\frac{4}{4}$ (d) $2\frac{5}{4}$

5. The LCM of the denominators of $\frac{5}{8}$ and $\frac{3}{10}$ is ....
   (a) 10 (b) 40 (c) 80 (d) 8

Question 2 : Complete the following :

1. $4\frac{2}{3}$ minutes = ...minutes and ....seconds .
2. $7\frac{2}{5}$ as an improper fraction is ....
3. 1 + ... = $1\frac{3}{7}$
4. $\frac{3}{4}$ year = ...month
5. Any number divided by itself is ....

Question 3 : Answer the following :

1. Write the fractions with like denominators : $\frac{5}{12}$ and $\frac{7}{10}$

   ....

2. Find the value of x

   (a) $\frac{3}{5} = \frac{15}{x}$ (b) $x - 3\frac{3}{5} = 10\frac{4}{5}$




Model (3)

Question 1 : Choose the correct answer :

1. $2\frac{1}{3}$ hour = ...minutes .
   ⓐ 140 ⓑ 120 ⓒ 20 ⓓ 100

2. $\frac{5}{9} = \frac{25}{\square}$
   ⓐ 9 ⓑ 5 ⓒ 81 ⓓ 45

3. $1 - \frac{2}{3} + \frac{2}{3}$ = ...
   ⓐ 1 ⓑ $\frac{2}{3}$ ⓒ $1\frac{2}{3}$ ⓓ $\frac{4}{3}$

4. 60 hours = ...days
   ⓐ 2 ⓑ 1 ⓒ $2\frac{1}{2}$ ⓓ $2\frac{1}{60}$

5. $\frac{6}{12}$ + ... = 1
   ⓐ $\frac{3}{6}$ ⓑ $\frac{2}{4}$ ⓒ $\frac{1}{2}$ ⓓ all of them

Question 2 : Complete the following :

1. If $\frac{5}{24} + \frac{3}{6} = \frac{5}{24} + \frac{k}{24}$,then k = ...
2. $\frac{26}{7}$ as a mixed number is ....
3. $10\frac{3}{4} - d = 7\frac{2}{3}$,then the value of d is ....
4. 3 hours and 30 minutes = ... minutes
5. $6 - 4\frac{7}{10}$ = ...

Question 3 : Answer the following :

1. Rewrite the following fractions with like denominators .
   ⓐ $2\frac{3}{5}$ and $7\frac{3}{7}$ ⓑ $\frac{6}{15}$ and $\frac{3}{5}$

2. Gannah has $5\frac{6}{7}$ kilograms of honey . She gave her father $3\frac{2}{3}$ kilograms of them . How many kilograms with Gannah now ?

....




Model (1)

1. The smallest like denominator of $\frac{3}{5}$ and $\frac{2}{15}$ is ....
   a) 5 b) 15 c) 75 d) 3
2. $\frac{1}{3} + \frac{2}{5} =$ ....
   a) $\frac{3}{5}$ b) $\frac{3}{8}$ c) $\frac{11}{15}$ d) $\frac{4}{15}$
3. Equivalent fraction of $\frac{6}{24}$ is ....
   a) $\frac{6}{12}$ b) $\frac{24}{6}$ c) $\frac{1}{6}$ d) $\frac{1}{4}$
4. $3\frac{1}{2}$ years = ...months
   a) 42 b) 36 c) 9 d) 40
5. $2\frac{2}{3} + m = 5\frac{1}{3}$, then the value of m is ....
   a) $3\frac{1}{3}$ b) $2\frac{2}{3}$ c) $3\frac{3}{3}$ d) 3

Question 2 : Complete the following :

1. $3\frac{1}{5}$ hours = ...192..............minutes
2. $\frac{7}{15} - \frac{2}{15} - \frac{3}{15} =$ ...... $\frac{3}{15}$ ....
3. $1 -$ ...... $\frac{1}{5}$ ..... $= \frac{4}{5}$
4. .... $4\frac{17}{30}$ .... $-3\frac{2}{3} = 1\frac{1}{6}$
5. 22 days = ... $3\frac{1}{7}$ ....weeks

Question 3 : Answer the following :

1. Amira bought $2\frac{5}{12}$ kilograms of oranges . she used $\frac{3}{4}$ kilogram to make a juice . How much kilograms with her now ?

   .... $2\frac{5}{12} - \frac{3}{4} = 1\frac{2}{3}$ kg..

2. Amira studied Arabic for 75 minutes and Math for $4\frac{1}{4}$ hours . How many hours did Amira study in all ?

   .... 75 min = $1\frac{1}{4}$ hr...... \\\\...... $4\frac{1}{4} + 1\frac{1}{4} = 5\frac{2}{4} = 5\frac{1}{2}$ hr...................





Model (2)

Question 1 : Choose the correct answer :

1. $\frac{3}{15}$ .... $\frac{1}{5}$
   (a) > (b) < (c) **=** (d) ≥

2. $\frac{5}{7} + \frac{1}{7} + \frac{6}{7} + \frac{2}{7} =$ ....
   (a) $2\frac{5}{7}$ (b) **2** (c) 3 (d) $\frac{15}{7}$

3. The simplest form of $\frac{12}{18}$ is ....
   (a) $\frac{12}{18}$ (b) $\frac{1}{18}$ (c) **$\frac{2}{3}$** (d) $\frac{6}{9}$

4. The fraction $3\frac{1}{4}$ by regrouping is ....
   (a) $3\frac{4}{4}$ (b) $4\frac{5}{4}$ (c) **$2\frac{5}{4}$** (d) $2\frac{5}{4}$

5. The LCM of the denominators of $\frac{5}{8}$ and $\frac{3}{10}$ is ....
   (a) 10 (b) **40** (c) 80 (d) 8

Question 2 : Complete the following :

1. $4\frac{2}{3}$ minutes = ... **4** ....minutes and ....**40**..........seconds .
2. $7\frac{2}{5}$ as an improper fraction is ...... **$\frac{37}{5}$** ......
3. 1 + ... **$\frac{3}{7}$** ..... = $1\frac{3}{7}$
4. $\frac{3}{4}$ year = ... **9** ....month
5. Any number divided by itself is .... **1** ....

Question 3 : Answer the following :

1. Write the fractions with like denominators : $\frac{5}{12}$ and $\frac{7}{10}$
   ....**LCM of 12 and 10 is 60 ,then $\frac{25}{60}$ and $\frac{42}{60}$** ....

2. Find the value of x (a) $\frac{3}{5} = \frac{15}{x}$ (b) $x - 3\frac{3}{5} = 10\frac{4}{5}$
   (a) **x = 25** (b) **$x = 10\frac{4}{5} + 3\frac{3}{5} = 14\frac{2}{5}$**





Model (3)

Question 1 : Choose the correct answer :

1. $2\frac{1}{3}$ hour = ...minutes .
   ⓐ 140 ⓑ 120 ⓒ 20 ⓓ 100
2. $\frac{5}{9} = \frac{25}{\square}$
   ⓐ 9 ⓑ 5 ⓒ 81 ⓓ 45
3. $1 - \frac{2}{3} + \frac{2}{3} =$ ....
   ⓐ 1 ⓑ $\frac{2}{3}$ ⓒ $1\frac{2}{3}$ ⓓ $\frac{4}{3}$
4. 60 hours = ...days
   ⓐ 2 ⓑ 1 ⓒ $2\frac{1}{2}$ ⓓ $2\frac{1}{60}$
5. $\frac{6}{12}$ + ... = 1
   ⓐ $\frac{3}{6}$ ⓑ $\frac{2}{4}$ ⓒ $\frac{1}{2}$ ⓓ all of them

Question 2 : Complete the following :

1. If $\frac{5}{24} + \frac{3}{6} = \frac{5}{24} + \frac{k}{24}$,then k = ...12......
2. $\frac{26}{7}$ as a mixed number is .....$3\frac{5}{7}$.......
3. $10\frac{3}{4} - d = 7\frac{2}{3}$,then the value of d is ...... $3\frac{1}{12}$ ....
4. 3 hours and 30 minutes = ...$3\frac{1}{2}$........... minutes
5. $6 - 4\frac{7}{10}$ = ...$1\frac{3}{10}$.......

Question 3 : Answer the following :

1. Rewrite the following fractions with like denominators .
   ⓐ $2\frac{3}{5}$ and $7\frac{3}{7}$ ⓑ $\frac{6}{15}$ and $\frac{3}{5}$
   ⓐ $2\frac{21}{35}$ and $7\frac{17}{35}$ ⓑ $\frac{6}{15}$ and $\frac{9}{15}$
2. Gannah has $5\frac{6}{7}$ kilograms of honey . She gave her father $3\frac{2}{3}$ kilograms of them . How many kilograms with Gannah now ?
   .... $5\frac{6}{7} - 3\frac{2}{3} = 4\frac{4}{21}$ kg..

Q1) Choose the correct answer:

A) The smallest like denominator of $\frac{3}{5}$ and $\frac{2}{15}$ is ……………

(5 or 15 or 75 or 3)

B) Equivalent fraction of $\frac{6}{24}$ is ………………

($\frac{6}{12}$ or $\frac{24}{6}$ or $\frac{1}{6}$ or $\frac{1}{4}$)

C) 3 ½ years =………………..months

(42 or 36 or 9 or 40)

D) $2\frac{2}{3}$ +m =$5\frac{1}{3}$, then the value of m is…………

($3\frac{1}{3}$ *or* $2\frac{2}{3}$ *or* $3\frac{3}{3}$ *or* 3)



E) $\frac{3}{5}$ ………………$\frac{1}{5}$

(< or > or = or ≤)

F) The simplest form of $\frac{12}{18}$ is …………………

($\frac{12}{18}$ *or* $\frac{1}{18}$ *or* $\frac{2}{3}$ or $\frac{6}{9}$)

G) The LCM of the denominators of $\frac{5}{8}$ *and* $\frac{3}{10}$ is

………………..

(10 or 40 or 80 or 8)

H) The fraction $3\frac{1}{4}$ by regrouping is…………..

($3\frac{4}{4}$ *or* $4\frac{5}{4}$ *or* $2\frac{4}{4}$ *or* $2\frac{5}{4}$)

I) $2\frac{1}{3}$ hour = …………..minutes

(140 or 120 or 20 or 100)

J) $\frac{5}{9} = \frac{25}{....}$

(9 or 5 or 81 or 45)

K) $1 - \frac{2}{3} + \frac{2}{3} =$……………

(1 or $\frac{2}{3}$ or $1\frac{2}{3}$ or $\frac{4}{3}$)

L) 60 hours=………………days

(2 or 1 or $2\frac{1}{2}$ or $2\,\frac{1}{60}$)

M) $\frac{6}{12}$ +………=1

($\frac{3}{6}$ or $\frac{2}{4}$ or $\frac{1}{2}$ or all of them)

N) $5\frac{1}{3} + 2\,\frac{2}{3} =$………

($8\frac{1}{3}$ or $3\,\frac{1}{3}$ or $7\,\frac{1}{3}$ or 8)

O) $6\frac{2}{3} - 4\frac{1}{2} =$..............

$(2\frac{7}{6} \quad or \quad 2\frac{1}{5} \quad or \quad 1\frac{1}{6} \quad or \quad 2\frac{1}{6})$

Q2)Complete

1. If $\frac{5}{24} + \frac{3}{6} = \frac{5}{24} + \frac{k}{24}$,

then k =....................

2. $\frac{26}{7}$ as a mixed number is ....

3. $10\frac{3}{4} - d = 7\frac{2}{3}$,

then the value of d is ....

4. 3 hours and 30 minutes= ……….minutes

5. $6 - 4\frac{7}{10} =$…………………

6. $1 + \cdots = 1\frac{3}{7}$

7. $\frac{3}{4}$ year =……………month

8. Any number divided by itself is

…………………

9. $7\frac{2}{5}$ as an improper fraction is

…………………

10. $4\frac{2}{3}$ minutes =……………. minutes and

……………. second

11. $... - 3\frac{2}{3} = 1\frac{1}{6}$

12. 22days =…………..weeks

13. $1 - \cdots = \frac{4}{5}$

14. $\frac{7}{15} - \frac{2}{15} - \frac{3}{15} =$…………..

15. $3\frac{3}{4}\ x\ 1\frac{1}{3} =$ ……………



Q3) Answer the following questions:

a) Amira bought $2\frac{5}{12}$ kilograms of oranges. she used $\frac{3}{4}$kilogram to make a juice. How much kilograms with her now ?

……………………………………………………………………

……………………………………………………………………

……………………………………………………………………

b) Soha studied Arabic for 75 minutes and Math for $4\frac{1}{4}$hours. How many hours did Soha study in all ?

……………………………………………………………………

……………………………………………………………………

……………………………………………………………………



c) Write the fractions with like denominators

: $\frac{5}{12}$ *and* $\frac{7}{10}$

....

....

....

d) Gannah has $5\frac{6}{7}$ kilograms of honey. She gave her father $3\frac{2}{3}$ kilograms of them.

How many kilograms with Gannah now?

....

....

....

e)Find the value of x :

✓ $\frac{3}{5} = \frac{15}{x}$



✓ x-$3\frac{3}{5} = 10\frac{4}{5}$

Q1) Choose the correct answer:

A) The smallest like denominator of $\frac{3}{5}$ and $\frac{2}{15}$ is ……………

(5 or 15 or 75 or 3)

B) Equivalent fraction of $\frac{6}{24}$ is ………………

($\frac{6}{12}$ or $\frac{24}{6}$ or $\frac{1}{6}$ or $\frac{1}{4}$)

C) 3 ½ years =……………….months

(42 or 36 or 9 or 40)

D) $2\frac{2}{3}$ +m =$5\frac{1}{3}$, then the value of m is…………

($3\frac{1}{3}$ *or* $2\frac{2}{3}$ *or* $3\frac{3}{3}$ *or* 3)



E) $\frac{3}{5}$ ………………$\frac{1}{5}$

($<$ or $>$ or $=$ or $\leq$)

F) The simplest form of $\frac{12}{18}$ is ……………….

($\frac{12}{18}$ *or* $\frac{1}{18}$ *or* $\frac{2}{3}$ or $\frac{6}{9}$)

G) The LCM of the denominators of $\frac{5}{8}$ *and* $\frac{3}{10}$ is

………………

(10 or 40 or 80 or 8)

H) The fraction $3\frac{1}{4}$ by regrouping is…………..

($3\frac{4}{4}$ *or* $4\frac{5}{4}$ *or* $2\frac{4}{4}$ *or* $2\frac{5}{4}$)

I) $2\frac{1}{3}$ hour = …………..minutes

(140 or 120 or 20 or 100)

J) $\frac{5}{9} = \frac{25}{....}$

(9 or 5 or 81 or 45)

K) $1 - \frac{2}{3} + \frac{2}{3} =$...............

(1 or $\frac{2}{3}$ or $1\frac{2}{3}$ or $\frac{4}{3}$)

L) 60 hours=.................days

(2 or 1 or $2\frac{1}{2}$ or $2\ \frac{1}{60}$)

M) $\frac{6}{12}$ +.........=1

($\frac{3}{6}$ or $\frac{2}{4}$ or $\frac{1}{2}$ or all of them)

N) $5\frac{1}{3} + 2\frac{2}{3} =$.........

($8\frac{1}{3}$ or $3\frac{1}{3}$ or $7\frac{1}{3}$ or 8)

O) $6\frac{2}{3} - 4\frac{1}{2} = \ldots\ldots\ldots\ldots$

($2\frac{7}{6}$ or $2\frac{1}{5}$ or $1\frac{1}{6}$ or $2\frac{1}{6}$)

Q2) Complete

1. If $\frac{5}{24} + \frac{3}{6} = \frac{5}{24} + \frac{k}{24}$,

   then k = **12**

2. $\frac{26}{7}$ as a mixed number is $\mathbf{3\frac{5}{7}}$

3. $10\frac{3}{4} - d = 7\frac{2}{3}$,

   then the value of d is $\mathbf{3\frac{1}{12}}$



4. 3 hours and 30 minutes= **210 minutes**

5. $6 - 4\frac{7}{10} = \mathbf{1\frac{3}{10}}$

6. $1 + \mathbf{\frac{3}{7}} = 1\frac{3}{7}$

7. $\frac{3}{4}$ year = **9 months**

8. Any number (except 0) divided by itself is **One.**

9. $7\frac{2}{5}$ as an improper fraction is $\mathbf{\frac{37}{5}}$

10. $4\frac{2}{3}$ minutes = **4 minutes & 40 seconds**

11. $\mathbf{4\frac{5}{6}} - 3\frac{2}{3} = 1\frac{1}{6}$

12. 22days = **3 weeks and 1 day**

13. $1 - \mathbf{\frac{1}{5}} = \frac{4}{5}$

14. $\frac{7}{15} - \frac{2}{15} - \frac{3}{15} = \mathbf{\frac{2}{15}}$

15. $3\frac{3}{4}\ x\ 1\frac{1}{3} = \mathbf{\frac{15}{4}\ x\ \frac{4}{3} = 5}$

Q3) Answer the following questions:

a) Amira bought $2\frac{5}{12}$ kilograms of oranges. she used $\frac{3}{4}$kilogram to make a juice. How much kilograms with her now ?

The number of kilograms with her now is:

$$\mathbf{2\frac{5}{12} - \frac{3}{4} = 2\,\frac{5}{12} - \frac{9}{12}}$$

$$\mathbf{= 1\frac{17}{12} - \frac{9}{12}}$$

$$\mathbf{= 1\frac{8}{12}}$$

$$\mathbf{= 1\frac{2}{3}\ Kg}$$

b) Soha studied Arabic for 75 minutes and Math for $4\frac{1}{4}$hours. How many hours did Soha study in all ?

Soha studied Arabic for 1 hour and 15 minutes

which is equal to $1\frac{15}{60} = 1\frac{1}{4}$ *hours*.

In all Soha studied $1\frac{1}{4} + 4\frac{1}{4} = 5\frac{2}{4}$

$= 5\frac{1}{2}$ hours

c) Write the fractions with like denominators

: $\frac{5}{12}$ *and* $\frac{7}{10}$

$$\frac{25}{60} \text{ and } \frac{42}{60}$$

d) Gannah has $5\frac{6}{7}$ kilograms of honey. She gave her father $3\frac{2}{3}$ kilograms of them.

How many kilograms with Gannah now?

The kilograms with Gannah now is $5\frac{6}{7} - 3\frac{2}{3}$

$$= 5\frac{18}{21} - 3\frac{14}{21}$$

$= 2\frac{4}{21}$ **Kg**


e)Find the value of x :

✓ $\frac{3}{5} = \frac{15}{x}$

X = 25

✓ x-$3\frac{3}{5} = 10\,\frac{4}{5}$

$\mathbf{X = 3\frac{3}{5} + 10\,\frac{4}{5}}$

$\mathbf{=13\,\frac{7}{5}}$

$\mathbf{= 14\frac{2}{5}}$

Choose the correct answer:

1 $\frac{2}{5}$, $\frac{3}{15}$ are equivalent to ……

ⓐ $\frac{5}{15},\frac{3}{15}$ ⓑ $\frac{2}{5},\frac{1}{5}$ ⓒ $\frac{2}{5},\frac{3}{5}$ ⓓ $\frac{8}{20},\frac{5}{20}$

2 The smallest like denominator of $\frac{3}{4}$ and $\frac{4}{5}$ is ……

ⓐ 20 ⓑ 10 ⓒ 12 ⓓ 40

3 $\frac{9}{10}+\frac{2}{5}$ is about $1\frac{1}{2}$

ⓐ Underestimate ⓑ Overestimate

4 $\frac{3}{5}+\frac{6}{10}$ is about 1

ⓐ Underestimate ⓑ Overestimate

5 $\frac{5}{6}+\frac{3}{7}$ is estimated as ……

ⓐ 1 + 1 ⓑ $\frac{1}{2}+\frac{1}{2}$ ⓒ 1 + 0 ⓓ $1+\frac{1}{2}$

6 $\frac{3}{8}+\frac{4}{5}$ is estimated as ……

ⓐ 2 ⓑ $1\frac{1}{2}$ ⓒ 1 ⓓ $\frac{1}{2}$

7 $\frac{3}{4}-\frac{1}{3}$ = …………

ⓐ $\frac{1}{2}$ ⓑ $\frac{1}{4}$ ⓒ $\frac{5}{12}$ ⓓ $\frac{1}{3}$

8 $\frac{2}{5}+\frac{3}{10}$ = …………

ⓐ $\frac{5}{15}$ ⓑ $\frac{7}{10}$ ⓒ $\frac{5}{10}$ ⓓ $\frac{1}{2}$

9 $\frac{3}{4}-\frac{5}{8}$ = …………

ⓐ $\frac{1}{4}$ ⓑ $\frac{1}{8}$ ⓒ $\frac{3}{8}$ ⓓ $\frac{5}{8}$

10 $5\frac{1}{2}+3\frac{1}{5}$ = ...

(a) $8\frac{2}{7}$ (b) $8\frac{7}{10}$ (c) $8\frac{1}{2}$ (d) $8\frac{2}{5}$

11 $1\frac{4}{5}-1\frac{1}{20}$ = ...

(a) $\frac{7}{20}$ (b) $\frac{4}{3}$ (c) $\frac{3}{4}$ (d) $1\frac{1}{5}$

12 Which of the following is overestimate?

(a) $\frac{8}{7}+\frac{5}{9}=1\frac{1}{2}$ (b) $\frac{4}{7}+\frac{3}{5}=1$ (c) $\frac{1}{6}+\frac{6}{11}=\frac{1}{2}$ (d) $\frac{4}{9}+\frac{3}{7}=1$

13 $\frac{5}{7}-\text{........}=\frac{1}{7}$

(a) $\frac{1}{7}$ (b) $\frac{4}{7}$ (c) $\frac{5}{7}$ (d) $\frac{6}{7}$

14 $4\frac{2}{3}+1\frac{2}{5}=5+1\frac{2}{5}-\text{.........}$

(a) $\frac{2}{3}$ (b) $\frac{2}{5}$ (c) $\frac{3}{5}$ (d) $\frac{1}{3}$

15 If $3\frac{2}{b}$ is estimated as 3, then b can equal ......

(a) 1 (b) 2 (c) 4 (d) 15

16 $4\frac{3}{7}+1\frac{5}{7}$ = ...

(a) $5\frac{1}{7}$ (b) $6\frac{1}{7}$ (c) $5\frac{8}{14}$ (d) $6\frac{2}{7}$

17 $5\frac{5}{8}-3\frac{2}{8}$ = ...

(a) $8\frac{7}{8}$ (b) $3\frac{3}{8}$ (c) $2\frac{1}{4}$ (d) $2\frac{3}{8}$

18 If $4\frac{3}{5}+K=6\frac{2}{5}$, then K = ...

(a) $1\frac{4}{5}$ (b) 11 (c) $2\frac{1}{5}$ (d) $1\frac{3}{5}$

19 Two fractions: $2\frac{5}{8}$, $1\frac{3}{4}$ with like denominators are ……………

ⓐ $2\frac{5}{16},1\frac{3}{16}$ ⓑ $1\frac{5}{8},2\frac{6}{8}$ ⓒ $2\frac{5}{8},1\frac{3}{8}$ ⓓ $2\frac{5}{8},1\frac{6}{8}$

20 $8\frac{3}{5}+1\frac{1}{12}$ can estimated as …………

ⓐ 9 ⓑ $9\frac{1}{2}$ ⓒ 10 ⓓ $8\frac{1}{2}$

21 If $5\frac{n}{18}$ is about 5, then n may be …………

ⓐ 8 ⓑ 17 ⓒ 2 ⓓ 12

22 $9\frac{4}{7}-9\frac{1}{7}$ = ………………………………

ⓐ 0 ⓑ $9\frac{3}{7}$ ⓒ $\frac{3}{7}$ ⓓ $1\frac{2}{7}$

23 $\frac{19}{5}$ is equivalent to ……………

ⓐ $3\frac{3}{5}$ ⓑ $4\frac{1}{5}$ ⓒ $3\frac{5}{5}$ ⓓ $3\frac{4}{5}$

24 $3\frac{4}{7}$ can be written as ……………

ⓐ 3 ⓑ 4 ⓒ $2\frac{11}{7}$ ⓓ $2\frac{4}{7}$

25 If $4\frac{x}{22}$ is slightly greater than $4\frac{1}{2}$, then x can be ………

ⓐ 10 ⓑ 21 ⓒ 5 ⓓ 12

26 $2\frac{1}{3}$ hours = …………… minutes.

ⓐ 150 ⓑ 120 ⓒ 130 ⓓ 140

27 $\frac{17}{3}$ is equivalent to ……………

ⓐ $\frac{1}{6}$ ⓑ $7\frac{1}{2}$ ⓒ $3\frac{2}{5}$ ⓓ $5\frac{2}{3}$

28 If $9\frac{x}{5}$ is little greater than $9\frac{1}{2}$, then x can be ………

ⓐ 3 ⓑ 5 ⓒ 2 ⓓ 1



Essay Problems:

1	**Omnia purchased $\frac{4}{5}$ kg of fava beans. She uses $\frac{3}{4}$ kg of them to make falafel. How many kilograms of fava beans are left?** ....
2	**Wafaa's flower garden consists of $\frac{1}{4}$ cornflowers and $\frac{2}{5}$ poppies. The rest of the garden is filled with roses. What fraction represents roses?** ....
3	**A road is 10 km long. If $4\frac{5}{7}$ km is paved. How many kilometers isn't paved?** ....
4	**Abeer is mixing juice for a celebration. She mixes $5\frac{3}{4}$ liters of fruit juice concentrate with $1\frac{1}{2}$ liters more water. She needs 12 liters of the mixture for the celebration. Does she have enough? Explain.** ....
5	**Ahmed spends $1\frac{1}{10}$ hours in studying Science and 20 minutes more in studying Math. How many minutes does he spend to study the two subjects together?** ....

1) Choose the correct answer:

1. The two like denominator fractions which are equivalent to the two fractions $\frac{2}{5}$, $\frac{3}{10}$ are …………………

   A) $\frac{4}{10}$, $\frac{3}{10}$ B) $\frac{2}{5}$, $\frac{1}{5}$ C) $\frac{2}{5}$, $\frac{3}{5}$ D) $\frac{8}{20}$, $\frac{5}{20}$

2. The smallest like denominator of $\frac{2}{3}$ and $\frac{4}{5}$ is ………..

   A) 20 B) 15 C) 12 D) 40

3. The fractions which are equivalent to $\frac{5}{6}$ and $\frac{7}{8}$ with the like denominator are ………..

   A) $\frac{15}{18}$, $\frac{14}{18}$ B) $\frac{20}{48}$, $\frac{42}{48}$ C) $\frac{10}{12}$, $\frac{10}{12}$ D) $\frac{20}{24}$, $\frac{21}{24}$

4. $\frac{5}{6} + \frac{3}{7}$ is estimated as ……………

   A) 1 + 1 B) $\frac{1}{2}$, $\frac{1}{2}$ C) 1 + 0 D) $1\frac{1}{2}$

5. Estimate the sum of $\frac{3}{8} + \frac{4}{7}$ using benchmarks, the sum is ………….

   A) 2 B) $1\frac{1}{2}$ C) 1 D) $\frac{1}{2}$

6. Estimate the difference $\frac{9}{10} - \frac{7}{8}$ using benchmarks, the difference is ………….

   A) 1 B) 0 C) $\frac{1}{2}$ D) 2

7. When estimate the sum of $\frac{8}{10} + \frac{2}{5}$ is about $1\frac{1}{2}$, the estimation is ………………

   A) overestimate b) underestimate

8 $\frac{2}{5} + \frac{3}{10} = \ldots\ldots\ldots\ldots$

A $\frac{5}{15}$ B $\frac{7}{10}$ C $\frac{5}{10}$ D $\frac{1}{2}$

9 $\frac{3}{4} - \frac{5}{8} = \ldots\ldots\ldots\ldots$

A $\frac{1}{4}$ B $\frac{1}{8}$ C $\frac{3}{8}$ D $\frac{5}{8}$

10 $\frac{5}{9} + \frac{1}{3} = \ldots\ldots\ldots\ldots$

A $\frac{7}{9}$ B $\frac{6}{12}$ C $\frac{8}{9}$ D $\frac{5}{27}$

11 $\frac{4}{5} - \frac{3}{4} = \ldots\ldots\ldots\ldots$

A $\frac{7}{20}$ B $\frac{15}{20}$ C $\frac{1}{20}$ D $\frac{3}{20}$

12 $1 - \frac{1}{4} - \frac{1}{6} = \ldots\ldots\ldots\ldots$

A $\frac{7}{12}$ B $\frac{1}{12}$ C $\frac{5}{6}$ D $\frac{3}{4}$

13 $1 + \frac{1}{2} + \frac{3}{4} = \ldots\ldots\ldots\ldots$

A $\frac{5}{6}$ B $2\frac{1}{4}$ C $2\frac{9}{20}$ D $2\frac{1}{2}$

14 *Equivalent fraction of* $\frac{2}{8}$ *is* …………

A $\frac{4}{8}$ B $\frac{2}{4}$ C $\frac{1}{4}$ D $\frac{4}{10}$

15 $\frac{6}{8} - \frac{\dots\dots}{\dots\dots} = \frac{1}{8}$

A $\frac{1}{8}$ B $\frac{4}{8}$ C $\frac{5}{8}$ D $\frac{6}{8}$

16 $1 - \dots\dots\dots = \frac{5}{8}$

A $\frac{5}{8}$ B $\frac{3}{8}$ C $\frac{6}{8}$ D $\frac{8}{7}$

17 $4\frac{3}{7} + 1\frac{5}{7} = \dots\dots\dots\dots\dots\dots$

A $5\frac{1}{7}$ B $6\frac{1}{7}$ C $5\frac{8}{14}$ D $6\frac{2}{7}$

18 $5\frac{5}{8} - 3\frac{2}{8} = \dots\dots\dots\dots\dots\dots$

A $8\frac{7}{8}$ B $3\frac{3}{8}$ C $2\frac{1}{4}$ D $2\frac{3}{8}$

19 *Two fractions* $2\frac{5}{8}$ *and* $1\frac{3}{4}$ *with like denominators are ……………*

A $2\frac{5}{16}$ and $1\frac{3}{16}$ B $1\frac{5}{8}$ and $2\frac{6}{8}$ C $2\frac{5}{8}$ and $1\frac{3}{8}$ D $2\frac{5}{8}$ and $1\frac{6}{8}$

20 $5\frac{4}{7} - 5\frac{1}{7} = \dots\dots\dots\dots\dots\dots$

A 0 B $9\frac{3}{7}$ C $\frac{3}{7}$ D $1\frac{2}{7}$

21 $\frac{19}{5}$ *is equivalent to …………*

A $3\frac{3}{5}$ B $4\frac{1}{5}$ C $3\frac{5}{45}$ D $3\frac{4}{5}$

22 $3\frac{4}{7}$ can be reground as ....

A) 3
B) 4
C) $2\frac{11}{7}$
D) $2\frac{4}{7}$

23 $5\frac{1}{2} + 3\frac{1}{5}$ = ...

A) $8\frac{2}{7}$
B) $8\frac{7}{10}$
C) $8\frac{1}{2}$
D) $8\frac{2}{5}$

24 $1\frac{4}{5} - 1\frac{1}{20}$ = ...

A) $\frac{7}{20}$
B) $\frac{4}{3}$
C) $\frac{3}{4}$
D) $1\frac{1}{5}$

25 $X + 4\frac{1}{4} = 5\frac{1}{2}$, then X = ...

A) $\frac{1}{2}$
B) $\frac{1}{4}$
C) $1\frac{1}{2}$
D) $1\frac{1}{4}$

26 $5\frac{2}{7} + k = 6\frac{5}{7}$, then k = ...

A) $11\frac{7}{7}$
B) $1\frac{3}{7}$
C) $4\frac{3}{7}$
D) $5\frac{1}{7}$

27 If $4\frac{X}{6}$ is slightly greater than $4\frac{1}{2}$, then X can be ....

A) 4
B) 21
C) 5
D) 12

28 $2\frac{1}{3}$ hours = ... minutes.

A) 150
B) 120
C) 130
D) 140

29 $\frac{17}{3}$ *is equivalent to ……………..*

A $3\frac{1}{6}$ B $7\frac{1}{2}$ C $3\frac{2}{5}$ D $5\frac{2}{3}$

30 $5\frac{3}{7} + 2\frac{6}{11}$ *can estimated as ……………….*

A 7 B $7\frac{1}{2}$ C 8 D $8\frac{1}{2}$

31 $\frac{3}{5} + \frac{2}{5}$ = ……………….

A $\frac{7}{14}$ B 1 C $\frac{34}{77}$ D $1\frac{7}{7}$

32 *Which of the following is Overestimate?*

A $\frac{9}{8} + \frac{1}{3}$ is about 1
C $5\frac{1}{7} + \frac{1}{4}$ is about 0
B $\frac{2}{5} + \frac{3}{8}$ is about 1
D $\frac{10}{12} + \frac{4}{5}$ is about 1

33 $\frac{9}{12} - \frac{5}{12}$ = ……………….

A 4 B $\frac{1}{3}$ C $\frac{14}{12}$ D $\frac{1}{4}$

34 $\frac{1}{4} + \frac{8}{9}$ *is estimated as ……………….*

A 0 B $\frac{1}{2}$ C 1 D $1\frac{1}{2}$

35 *The mixed number $2\frac{1}{7}$ can be regrouped as ....*

(A) $1\frac{8}{7}$ (B) $2\frac{8}{7}$ (C) $1\frac{1}{14}$ (D) $1\frac{7}{8}$

36 $1\frac{1}{2} + 7\frac{1}{2}$ = ...

(A) $8\frac{1}{2}$ (B) 9 (C) 8 (D) 10

37 *The equivalent of $\frac{3}{6}$ is ....*

(A) $\frac{3}{5}$ (B) $\frac{2}{6}$ (C) $\frac{15}{30}$ (D) $\frac{2}{5}$

38 *$5 - \frac{1}{2} - \frac{1}{3}$ = ...*

(A) $4\frac{5}{6}$ (B) $4\frac{1}{2}$ (C) $4\frac{1}{6}$ (D) $4\frac{3}{4}$

39 *If $3\frac{1}{7} = 2\frac{X}{7}$ by regrouping , then X = ...*

(A) 1 (B) 2 (C) 3 (D) 8

40 *$2\frac{1}{2}$ days = ... hours.*

(A) $\frac{5}{2}$ (B) 48 (C) 36 (D) 60

41 *The simplest form of $\frac{12}{18}$ is ....*

(A) $\frac{12}{18}$ (B) $\frac{6}{9}$ (C) $\frac{8}{12}$ (D) $\frac{2}{3}$

2) Complete:

1. $\frac{7}{12} - \frac{3}{12}$ = ...
2. $1 - \frac{1}{8}$ = ...
3. The LCM of denominators of $\frac{3}{4}$ and $\frac{3}{5}$ is ....
4. $1 - \frac{1}{3} - \frac{1}{5}$ = ...
5. $\frac{1}{6} + \frac{5}{8}$ = ...
6. $\frac{7}{12} + \frac{9}{10}$ is estimated as ....
7. $7\frac{2}{7} + 1\frac{3}{7}$ = ...
8. $2\frac{1}{4} - 1\frac{3}{4}$ = ...
9. If $X + 2\frac{1}{8} = 5\frac{3}{8}$, then X = ...
10. $\frac{1}{5}$ minute = ...seconds.
11. $2\frac{1}{4}$ years = ... months.
12. 18 hours = ... Day.

13. $5\frac{1}{2} - \frac{3}{4}$ = ...

14. $2\frac{1}{4} + 2\frac{1}{4}$ = ...

15. $\frac{1}{2} + \frac{2}{5}$ = ...

16. Simplest form of $\frac{15}{27}$ is ....

17. $\frac{17}{10} - \frac{4}{10}$ = ...

18. $\frac{8}{32} = \frac{4}{.........}$

19. $7\frac{1}{10}$ minutes = ... minutes and .... Seconds.

20. $4\frac{3}{4}$ hours = ... hours and .... minutes.

21. $6\frac{1}{2}$ years = ... years and .... months.

22. $3\frac{1}{2} - 2\frac{3}{5}$ = ...

23. $9\frac{1}{4}$ - .... = $3\frac{3}{4}$

24. $\frac{3}{4}$ years = ... Months.

25. $2\frac{b}{9}$ is almost 3 estimate for b = ...

3) Answer the following questions

1. $1\frac{3}{5} + 3\frac{1}{5} =$ ....

2. $2\frac{5}{6} + 2\frac{3}{6} =$ ....

3. $3\frac{2}{5} - 1\frac{4}{5} =$ ....

4. $5\frac{1}{4} - 2\frac{3}{4} =$ ....

5. $4\frac{5}{6} - 2\frac{1}{6} =$ ....

6. $6\frac{1}{3} - 3\frac{4}{5} =$ ....

7. $2\frac{7}{8} - 1\frac{1}{2} =$ ....

8. $9\frac{1}{4} - 8\frac{3}{5} =$ ....

9. Estimate: $7\frac{1}{2} - 2\frac{7}{8} =$ ....

10. Estimate: $4\frac{1}{4} - 2\frac{5}{6} =$ ....

11. $3\frac{1}{5} + b = 5\frac{3}{5}$ $b =$ ....

12. $x - \frac{2}{8} = \frac{6}{8}$ $x =$ ....

13 $2\frac{2}{3} - h = 2$ h = ...

14 $a + 5\frac{5}{6} = 9\frac{1}{12}$ a = ...

15 $8\frac{7}{10} - b = 4\frac{9}{20}$ h = ...

16 *Marvina spend $\frac{1}{2}$ of her money to buy candy and $\frac{1}{3}$ of it to buy toys.*

What fraction of her money is left?

....

....

....

17 *Marwan studies math for $3\frac{1}{2}$ hours and science for 90 minutes.*

How many hours did Marwan study in all?

....

....

....

18 *Soha likes chocolate. One day she bought a chocolate and ate $\frac{5}{9}$ of it in the morning and $\frac{1}{3}$ in the evining.*

How much part of the chocolate has she eaten?

....

....

....

19 *Omnia purchases $\frac{8}{9}$ kg of fava beans. She uses $\frac{3}{4}$ kg of the fava beans to make falafel.*

How many kilograms of fava beans are left?

....

....

....

20 *Ahmed ate $\frac{1}{3}$ of the cake and Hazem $\frac{3}{8}$*

How much of the cake has been eaten and how much is left?

....

....

....

21 *Sara's flower garden consists of $\frac{3}{7}$ cornflowers and $\frac{2}{5}$ poppies. The rest of the garden is filled with roses. What fraction of the Sara's garden is roses?*

....

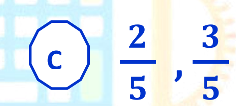
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1) Choose the correct answer:

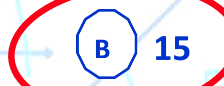
1) The two like denominator fractions which are equivalent to the two fractions $\frac{2}{5}$, $\frac{3}{10}$ are ....





A) $\frac{4}{10}$, $\frac{3}{10}$ B) $\frac{2}{5}$, $\frac{1}{5}$ C) $\frac{2}{5}$, $\frac{3}{5}$ D) $\frac{8}{20}$, $\frac{5}{20}$

2) The smallest like denominator of $\frac{2}{3}$ and $\frac{4}{5}$ is ....



A) 20 B) 15 C) 12 D) 40

3) The fractions which are equivalent to $\frac{5}{6}$ and $\frac{7}{8}$ with the like denominator are ....

A) $\frac{15}{18}$, $\frac{14}{18}$ B) $\frac{20}{48}$, $\frac{42}{48}$ C) $\frac{10}{12}$, $\frac{10}{12}$ D) $\frac{20}{24}$, $\frac{21}{24}$

4) $\frac{5}{6} + \frac{3}{7}$ is estimated as ....

A) 1 + 1 B) $\frac{1}{2}$, $\frac{1}{2}$ C) 1 + 0 D) $1\frac{1}{2}$

5) Estimate the sum of $\frac{3}{8} + \frac{4}{7}$ using benchmarks, the sum is ....

A) 2 B) $1\frac{1}{2}$ C) 1 D) $\frac{1}{2}$

6) Estimate the difference $\frac{9}{10} - \frac{7}{8}$ using benchmarks, the difference is ....

A) 1 B) 0 C) $\frac{1}{2}$ D) 2

7) When estimate the sum of $\frac{8}{10} + \frac{2}{5}$ is about $1\frac{1}{2}$, the estimation is ....

A) overestimate b) underestimate

8 $\frac{2}{5} + \frac{3}{10} =$ ....

A $\frac{5}{15}$ B $\frac{7}{10}$ C $\frac{5}{10}$ D $\frac{1}{2}$

9 $\frac{3}{4} - \frac{5}{8} =$ ....

A $\frac{1}{4}$ B $\frac{1}{8}$ C $\frac{3}{8}$ D $\frac{5}{8}$

10 $\frac{5}{9} + \frac{1}{3} =$ ....

A $\frac{7}{9}$ B $\frac{6}{12}$ C $\frac{8}{9}$ D $\frac{5}{27}$

11 $\frac{4}{5} - \frac{3}{4} =$ ....

A $\frac{7}{20}$ B $\frac{15}{20}$ C $\frac{1}{20}$ D $\frac{3}{20}$

12 $1 - \frac{1}{4} - \frac{1}{6} =$ ....

A $\frac{7}{12}$ B $\frac{1}{12}$ C $\frac{5}{6}$ D $\frac{3}{4}$

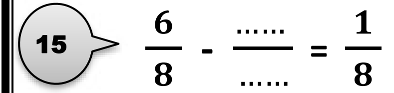
13 $1 + \frac{1}{2} + \frac{3}{4} =$ ....

A $\frac{5}{6}$ B $2\frac{1}{4}$ C $2\frac{9}{20}$ D $2\frac{1}{2}$

14 *Equivalent fraction of* $\frac{2}{8}$ *is* ....

A $\frac{4}{8}$ B $\frac{2}{4}$ C $\frac{1}{4}$ D $\frac{4}{10}$

15 $\frac{6}{8} - \frac{\ldots\ldots}{\ldots\ldots} = \frac{1}{8}$



- A $\frac{1}{8}$
- B $\frac{4}{8}$
- C $\frac{5}{8}$
- D $\frac{6}{8}$

[circled: C]

16 $1 - \ldots\ldots = \frac{5}{8}$

- A $\frac{5}{8}$
- B $\frac{3}{8}$
- C $\frac{6}{8}$
- D $\frac{8}{7}$

[circled: B]

17 $4\frac{3}{7} + 1\frac{5}{7} = \ldots\ldots\ldots\ldots\ldots\ldots$

- A $5\frac{1}{7}$
- B $6\frac{1}{7}$
- C $5\frac{8}{14}$
- D $6\frac{2}{7}$

[circled: B]

18 $5\frac{5}{8} - 3\frac{2}{8} = \ldots\ldots\ldots\ldots\ldots\ldots$

- A $8\frac{7}{8}$
- B $3\frac{3}{8}$
- C $2\frac{1}{4}$
- D $2\frac{3}{8}$

[circled: D]

19 *Two fractions $2\frac{5}{8}$ and $1\frac{3}{4}$ with like denominators are ……………*

- A $2\frac{5}{16}$ and $1\frac{3}{16}$
- B $1\frac{5}{8}$ and $2\frac{6}{8}$
- C $2\frac{5}{8}$ and $1\frac{3}{8}$
- D $2\frac{5}{8}$ and $1\frac{6}{8}$

[circled: D]

20 $5\frac{4}{7} - 5\frac{1}{7} = \ldots\ldots\ldots\ldots\ldots\ldots$

- A 0
- B $9\frac{3}{7}$
- C $\frac{3}{7}$
- D $1\frac{2}{7}$

[circled: C]

21 $\frac{19}{5}$ *is equivalent to …………*

- A $3\frac{3}{5}$
- B $4\frac{1}{5}$
- C $3\frac{5}{45}$
- D $3\frac{4}{5}$

[circled: D]

22. $3\frac{4}{7}$ can be reground as ....

A) 3
B) 4
C) $2\frac{11}{7}$
D) $2\frac{4}{7}$

23. $5\frac{1}{2} + 3\frac{1}{5}$ = ...

A) $8\frac{2}{7}$
B) $8\frac{7}{10}$
C) $8\frac{1}{2}$
D) $8\frac{2}{5}$

24. $1\frac{4}{5} - 1\frac{1}{20}$ = ...

A) $\frac{7}{20}$
B) $\frac{4}{3}$
C) $\frac{3}{4}$
D) $1\frac{1}{5}$

25. *$X + 4\frac{1}{4} = 5\frac{1}{2}$, then X = ...*

A) $\frac{1}{2}$
B) $\frac{1}{4}$
C) $1\frac{1}{2}$
D) $1\frac{1}{4}$

26. *$5\frac{2}{7} + k = 6\frac{5}{7}$, then k = ...*

A) $11\frac{7}{7}$
B) $1\frac{3}{7}$
C) $4\frac{3}{7}$
D) $5\frac{1}{7}$

27. *If $4\frac{X}{6}$ is slightly greater than $4\frac{1}{2}$, then X can be ....*

A) 4
B) 21
C) 5
D) 12

28. *$2\frac{1}{3}$ hours = ... minutes.*

A) 150
B) 120
C) 130
D) 140

29 $\frac{17}{3}$ *is equivalent to ....*

A $3\frac{1}{6}$　　B $7\frac{1}{2}$　　C $3\frac{2}{5}$　　D $5\frac{2}{3}$

30 $5\frac{3}{7} + 2\frac{6}{11}$ *can estimated as ....*

A 7　　B $7\frac{1}{2}$　　C 8　　D $8\frac{1}{2}$

31 $\frac{3}{5} + \frac{2}{5}$ = ...

A $\frac{7}{14}$　　B 1　　C $\frac{34}{77}$　　D $1\frac{7}{7}$

32 *Which of the following is* ***Overestimate****?*

A $\frac{9}{8} + \frac{1}{3}$ is about 1

C $5\frac{1}{7} + \frac{1}{4}$ is about 0

B $\frac{2}{5} + \frac{3}{8}$ is about 1

D $\frac{10}{12} + \frac{4}{5}$ is about 1

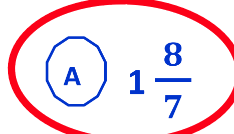
33 $\frac{9}{12} - \frac{5}{12}$ = ...

A 4　　B $\frac{1}{3}$　　C $\frac{14}{12}$　　D $\frac{1}{4}$

34 $\frac{1}{4} + \frac{8}{9}$ *is estimated as ....*

A 0　　B $\frac{1}{2}$　　C 1　　D $1\frac{1}{2}$

35 *The mixed number* $2\frac{1}{7}$ *can be regrouped as ....*



A) $1\frac{8}{7}$ B) $2\frac{8}{7}$ C) $1\frac{1}{14}$ D) $1\frac{7}{8}$

36 $1\frac{1}{2} + 7\frac{1}{2} =$ ....

A) $8\frac{1}{2}$ B) 9 C) 8 D) 10

37 *The equivalent of* $\frac{3}{6}$ *is ....*

A) $\frac{3}{5}$ B) $\frac{2}{6}$ C) $\frac{15}{30}$ D) $\frac{2}{5}$

38 $5 - \frac{1}{2} - \frac{1}{3} =$ *..................*

A) $4\frac{5}{6}$ B) $4\frac{1}{2}$ C) $4\frac{1}{6}$ D) $4\frac{3}{4}$

39 *If* $3\frac{1}{7} = 2\frac{X}{7}$ *by regrouping , then X = ...*

A) 1 B) 2 C) 3 D) 8

40 $2\frac{1}{2}$ *days = ... hours.*

A) $\frac{5}{2}$ B) 48 C) 36 D) 60

41 *The simplest form of* $\frac{12}{18}$ *is ....*

A) $\frac{12}{18}$ B) $\frac{6}{9}$ C) $\frac{8}{12}$ D) $\frac{2}{3}$

2) Complete:

1. $\frac{7}{12} - \frac{3}{12} = \frac{4}{12} = \frac{1}{3}$

2. $1 - \frac{1}{8} = \frac{7}{8}$

3. The LCM of denominators of $\frac{3}{4}$ and $\frac{3}{5}$ is 20

4. $1 - \frac{1}{3} - \frac{1}{5} = \frac{7}{15}$

5. $\frac{1}{6} + \frac{5}{8} = \frac{19}{24}$

6. $\frac{7}{12} + \frac{9}{10}$ is estimated as $1\frac{1}{2}$

7. $7\frac{2}{7} + 1\frac{3}{7} = 8\frac{5}{7}$

8. $2\frac{1}{4} - 1\frac{3}{4} = \frac{2}{4} = \frac{1}{2}$

9. If $X + 2\frac{1}{8} = 5\frac{3}{8}$, then $X = 3\frac{2}{8} = 3\frac{1}{4}$

10. $\frac{1}{5}$ minute = 12 seconds.

11. $2\frac{1}{4}$ years = 27 months.

12. 18 hours = $\frac{3}{4}$ Day.

13. $5\frac{1}{2} - \frac{3}{4} =$ ……… $4\frac{3}{4}$

14. $2\frac{1}{4} + 2\frac{1}{4} =$ ……… $4\frac{2}{4} = 4\frac{1}{2}$

15. $\frac{1}{2} + \frac{2}{5} =$ ……… $\frac{9}{10}$

16. Simplest form of $\frac{15}{27}$ is ……… $\frac{5}{9}$

17. $\frac{17}{10} - \frac{4}{10} =$ ……… $\frac{13}{10} = 1\frac{3}{10}$

18. $\frac{8}{32} = \frac{4}{16}$

19. $7\frac{1}{10}$ minutes = …… 7 …… minutes and …… 6 …… Seconds.

20. $4\frac{3}{4}$ hours = …… 4 …… hours and …… 45 …… minutes.

21. $6\frac{1}{2}$ years = …… 6 …… years and …… 6 …… months.

22. $3\frac{1}{2} - 2\frac{3}{5} =$ ……… $\frac{9}{10}$

23. $9\frac{1}{4} -$ …… $5\frac{1}{2}$ …… $= 3\frac{3}{4}$

24. $\frac{3}{4}$ years = …… 9 …… Months.

25. $2\frac{b}{9}$ is almost 3 estimate for b = …… 8 ……

3) Answer the following questions

1. $1\frac{3}{5} + 3\frac{1}{5} =$ ....$4\frac{4}{5}$....
2. $2\frac{5}{6} + 2\frac{3}{6} =$ ....$4\frac{8}{6} = 5\frac{2}{6} = 5\frac{1}{3}$
3. $3\frac{2}{5} - 1\frac{4}{5} =$ ....$1\frac{3}{5}$....
4. $5\frac{1}{4} - 2\frac{3}{4} =$ ....$2\frac{2}{4} = 2\frac{1}{2}$
5. $4\frac{5}{6} - 2\frac{1}{6} =$ ....$2\frac{4}{6} = 2\frac{2}{3}$
6. $6\frac{1}{3} - 3\frac{4}{5} =$ ....$2\frac{8}{15}$....
7. $2\frac{7}{8} - 1\frac{1}{2} =$ ....$1\frac{3}{8}$....
8. $9\frac{1}{4} - 8\frac{3}{5} =$ ....$\frac{13}{20}$....
9. Estimate: $7\frac{1}{2} - 2\frac{7}{8} =$ ....$7\frac{1}{2} - 3 = 4\frac{1}{2}$
10. Estimate: $4\frac{1}{4} - 2\frac{5}{6} =$ ....$4 - 3 = 1$
11. $3\frac{1}{5} + b = 5\frac{3}{5}$ $\quad b =$ ....$2\frac{2}{5}$....
12. $x - \frac{2}{8} = \frac{6}{8}$ $\quad x =$ ....$\frac{8}{8} = 1$

13 $2\frac{2}{3} - h = 2$ $h = \frac{2}{3}$

14 $a + 5\frac{5}{6} = 9\frac{1}{12}$ $a = 3\frac{3}{12} = 3\frac{1}{4}$

15 $8\frac{7}{10} - b = 4\frac{9}{20}$ $h = 4\frac{5}{20} = 4\frac{1}{4}$

16 *Marvina spend $\frac{1}{2}$ of her money to buy candy and $\frac{1}{3}$ of it to buy toys.*

What fraction of her money is left?

$1 - \frac{1}{2} - \frac{1}{3} = \frac{6}{6} - \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$

17 *Marwan studies math for $3\frac{1}{2}$ hours and science for 90 minutes.*

How many hours did Marwan study in all?

90 min. $= 1\frac{1}{2}$ hours

$3\frac{1}{2} + 1\frac{1}{2} = 4\frac{2}{2} = 5$ hours

18 *Soha likes chocolate. One day she bought a chocolate and ate $\frac{5}{9}$ of it in the morning and $\frac{1}{3}$ in the evining.*

How much part of the chocolate has she eaten?

$\frac{5}{9} + \frac{1^{\times 3}}{3_{\times 3}} = \frac{5}{9} + \frac{3}{9} = \frac{8}{9} = 1\frac{1}{9}$

19 *Omnia purchases $\frac{8}{9}$ kg of fava beans. She uses $\frac{3}{4}$ kg of the fava beans to make falafel.*

How many kilograms of fava beans are left?

$\frac{8}{9} - \frac{3}{4} = \frac{32}{36} - \frac{27}{36} = \frac{5}{36}$ kg

20 *Ahmed ate $\frac{1}{3}$ of the cake and Hazem $\frac{3}{8}$*

How much of the cake has been eaten and how much is left?

$\frac{1}{3} + \frac{3}{8} = \frac{8}{24} + \frac{9}{24} = \frac{17}{24}$

$\frac{24}{24}$ $1 - \frac{17}{24} = \frac{7}{24}$ of the Cake

21 *Sara's flower garden consists of $\frac{3}{7}$ cornflowers and $\frac{2}{5}$ poppies. The rest of the garden is filled with roses. What fraction of the Sara's garden is roses?*

$\frac{3}{7} + \frac{2}{5} = \frac{15}{35} + \frac{14}{35} = \frac{29}{35}$

$\frac{35}{35}$ $1 - \frac{29}{35} = \frac{6}{35}$ of the garden